

# **AZELLA**

## **Arizona English Language Learner Assessment**

# **2017**

# **Technical Report**

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## FOREWORD

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THE TECHNICAL INFORMATION HEREIN IS INTENDED FOR USE BY THOSE WHO EVALUATE TESTS, INTERPRET SCORES, OR USE TEST RESULTS IN MAKING EDUCATIONAL DECISIONS. IT IS ASSUMED THAT THE READER HAS TECHNICAL KNOWLEDGE OF TEST CONSTRUCTION AND MEASUREMENT PROCEDURES, AS STATED IN *STANDARDS FOR EDUCATIONAL AND PSYCHOLOGICAL TESTING* (AMERICAN EDUCATIONAL RESEARCH ASSOCIATION, AMERICAN PSYCHOLOGICAL ASSOCIATION, NATIONAL COUNCIL ON MEASUREMENT IN EDUCATION 1999) AND IN THE NEW EDITION, *STANDARDS FOR EDUCATIONAL AND PSYCHOLOGICAL TESTING* (AMERICAN EDUCATIONAL RESEARCH ASSOCIATION, AMERICAN PSYCHOLOGICAL ASSOCIATION, NATIONAL COUNCIL ON MEASUREMENT IN EDUCATION 2014).

# Chapter 1. INTRODUCTION

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## 1.1 Background

Title III of the Every Student Succeeds Act (ESSA) requires standardized entrance and exit assessments in English proficiency. Arizona state law (ARS 15-756) requires the identification of English language learner (EL) students through the administration of English language proficiency assessments to students with a primary home language other than English (PHLOTE). Additionally, state law (ARS 15-756.05) requires the annual reassessment of EL students.

## 1.2 Purpose and Uses

The Arizona English Language Learner Assessment (AZELLA) is the Arizona English language proficiency test used to identify students in need of EL services. The AZELLA is used to meet state and federal assessment requirements and assesses the 2011 Arizona English Language Proficiency (ELP) Standards. The test provides information regarding the student's English language proficiency. Upon first enrollment in an Arizona school, if any of the three questions on the Primary Home Language Other than English (PHLOTE) Home Language Survey form or the school enrollment form are answered with any language other than English, the student is identified as a PHLOTE. The three questions are as follows:

1. What is the primary language used in the home regardless of the language spoken by the student?
2. What is the language most often spoken by the student?
3. What is the language that the student first acquired?

PHLOTE students are administered the AZELLA for initial identification and placement. If the students test proficient in English, they are classified as Initial Fluent English Proficient (IFEP) students. Otherwise, they are classified as eligible for EL services. Teachers use the AZELLA student results and ongoing classroom assessments in order to make instructional decisions that differentiate instruction and develop student readiness for instruction in mainstream classrooms. The AZELLA is also used for annual reassessment of EL students to measure progress and to exit them from EL services once they score "Proficient." These students are then classified as Fluent English Proficient (FEP) students and placed into mainstream classes where they are monitored using district determined processes and offered compensatory instruction as needed, for at least two years.

In order to comply with federal and state laws, the Arizona Department of Education (ADE) established statewide English language proficiency standards and developed a testing program around those standards. Following years of locally determined language proficiency testing, ADE adopted a single English language proficiency test, the *Stanford English Language Proficiency Test* (SELP), for statewide use in the 2004-2005 and 2005-2006 school years. SELP was modified to better align to the Arizona ELPS creating AZELLA Form AZ-1 and was used from the 2006-2007 school year through the 2008-2009 school year. AZELLA Form AZ-2 was equated to SELP and used in Arizona from the 2009-2010 school year through the 2011-2012 school year and as a placement test for Stages II – V in the 2012-2013 school year. For the

AZELLA Form AZ-1 (SELP) and Form AZ-2, a single test form per Stage was used both for placement testing and for annual reassessment for EL students.

In 2011, Arizona revised the performance indicators of the ELP Standards to ensure that English language learners would have the linguistic foundations for academic English that are needed to meet the language demands and complexity required in Arizona's College and Career Ready Standards – English Language Arts/Literacy (AZ CCRS-ELA). The modifications of the ELPS necessitated a parallel revision of the AZELLA. Consistent with the prior Standards and tests, both the revised ELP Standards and the revised AZELLA were developed to address five grade spans: Stage I for Kindergarten; Stage II for Grades 1 and 2; Stage III for Grades 3, 4, and 5; Stage IV for Grades 6, 7, and 8; and Stage V for high school. The revised AZELLA was designed to test the increased language demands created by the rigor of the ELP Standards and the AZ CCRS-ELA. The revised AZELLA was developed in accordance to the *Standards for Educational and Psychological Testing* (AERA, APA, NCME 1999) and meets the requirements set forth in federal and state law.

Under the previous state-wide assessment systems, using AZELLA forms AZ-1 and AZ-2, the Stage I form was used for both Kindergarten placement and the spring reassessment. A new component of the revised AZELLA assessment system was a separate Kindergarten Placement Test (KPT). The KPT was designed to be better aligned to the assessment needs of incoming Kindergarten students than the end of year Stage I test.

The current assessment system uses the KPT for the assessment of incoming Kindergarten students to determine EL service need. A non-parallel Stage I test is then used to reassess Kindergarten EL students during spring. For the other stages, two parallel and equated AZELLA forms per stage were created and operationalized during the 2012-2013 school year. One of these forms was chosen to be used as the placement assessment for new PHLOTE students throughout the year, starting with the 2013-2014 school year, and the other was refreshed annually for use as the spring reassessment.

AZELLA Stage tests are designed to assess students at all skill progression levels within the assigned grade span. This vertical development of the language assessed allows the test to discriminate relatively finely among students at different levels of language acquisition. AZELLA results provide students, teachers, and parents with an objective report of students' English language skills in listening, speaking, reading, and writing. AZELLA results determine whether schools are helping students to make adequate progress toward English language proficiency and the amount of year-to-year progress students make in language proficiency for federal and state accountability.

## Chapter 2. INVOLVEMENT OF ARIZONA EDUCATORS AT ALL LEVELS

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Chapter 2 of the technical report addresses the involvement of Arizona educators in test development. This part of the technical report addresses Standard 3.5 of the *Standards for Educational and Psychological Testing* (AERA, APA, NCME 1999) and Standard 4.6 in the new edition of the *Standards for Educational and Psychological Testing* (AERA, APA, NCME 2014).

Four Item Writing, one Content and Bias Review, and two Rangefinding committees were held in preparation of the 2017 Spring AZELLA Reassessments. In addition, several committees were involved in the development of AZELLA in prior years. These committees included teachers, curriculum specialists, administrators, and policy makers from across the state.

The committee meetings included:

- A meeting of the ELP Advisory Committee, facilitated by ADE Staff, held on April 7 and 8, 2011 to review the English Language Proficiency Standards in order to determine which performance indicators would be assessable on the new AZELLA tests.
- A meeting of a committee of EL educators held June 29 to July 1, 2011 to review item specifications. The final versions of these specifications are presented within the AZELLA Field Test Technical Report (Arizona Department of Education, 2013c) available on ADE's website at [www.azed.gov](http://www.azed.gov).
- A committee of educators met on July 11 to 15, 2011 to review reading passages and write test items.
- Item content and bias review meetings were held on August 27, 2011 for Stages I through V, and on January 12, 2012 for the Kindergarten Placement Test.
- Data review meetings in which educators reviewed item field-test statistics and identified item eligible for inclusion on the AZELLA tests were held on March 15 and 16, 2012 and on June 28, 2012.
- Standard setting meeting July 2012 and again in May 2014, in which educators set performance standards on the Kindergarten Placement Test.
- Rangefinding committee meetings for open-ended Writing items were held from July 16 through 20, 2012. Speaking Rangefinding committee meetings were held from July 23 through July 27, 2012.
- May Standard Setting meeting, conducted in May 2013, in which educators were gathered to set performance standards for the Stages I through V tests.
- June Standard Setting meeting, conducted in June 2013, in which educators reviewed the performance standards for the Stages I through V tests set in the May standard setting meeting after impact data on Arizona's Instrument to Measure Standards (AIMS) was available.
- Rangefinding meeting, conducted in January 2015, in which an educator along with ADE staff members and Pearson staff members discussed scoring of one operational Stage I Writing item and one Stage V Writing operational item and selected training sets that conformed to existing anchor, practice, and training sets for other similar operational items.

- Rangefinding meeting, conducted in April 2015, in which an educator along with ADE staff members and Pearson staff members discussed scoring of one field test Stage V Writing item and selected the training sets. Annual Rangefinding meetings discussed scoring of field-tested writing items and selected the training sets.
- An educator committee meeting on January 9, 2016, in which a group of educators reviewed existing Kindergarten Placement Test items and made recommendations for retaining items, improving existing items, and eliminating weak or redundant items.
- An educator committee meeting on February 20, 2016, in which a group of educators carefully reviewed new field-test items for Kindergarten Placement Test, by checking that content was appropriately aligned to the ELP Standards, developmentally appropriate for the age group, culturally sensitive and devoid of bias, following principles of universal design, and meeting standards for accuracy and visual presentation.

## **Chapter 3. TEST DESIGN**

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Chapter 3 of the technical report provides information regarding test design. The following 1999 AERA/APA/NCME standards (AERA, APA, NCME 1999) are addressed: 1.2, 1.6, 3.1, 3.2, 3.3, 3.11, 6.4, 6.15, 13.3, and 13.5. The 2014 AERA/APA/NCME standards (AERA, APA, NCME 2014) addressed by this part of the technical report are 1.1, 1.11, 4.0, 4.1, 4.2, 4.12, 7.0, 7.2, 12.4, and 12.8.

### **3.1 Content Standards**

In 2011, the Arizona Department of Education (ADE) adopted a new version of the Arizona ELP Standards. These standards are designed to provide students with the prerequisite language skills necessary to access content and instruction in academic classrooms. The 2011 ELP Standards reflect a purposeful overlap with the language skills of the Arizona College and Career Ready Standards (ACCRS), and they also reflect an increase in rigor, consistent with the ACCRS, when compared to the previous version of the standards.

The ELP Standards are organized by strand, specifically Listening and Speaking, Reading, Writing, and Language, which includes English Conventions and Vocabulary. The standards are presented by stage and domain and performance indicators (PIs) for each standard and each skill progression level. The Stages are as follows: Stage I (Kindergarten), Stage II (Grades 1 and 2), Stage III (Grades 3, 4, and 5), Stage IV (Grades 6, 7, and 8), and Stage V (High School). The skill progression levels are Pre-Emergent, Emergent, Basic, Low Intermediate, and High Intermediate. The complete set of standards can be accessed on ADE's website at <http://www.azed.gov/english-language-learners/elps/>.

With the revision of the ELP Standards, it was necessary to revise the Arizona English Language Learner Assessment (AZELLA) to reflect the content and expectations of the new standards. To support this effort, WestEd content and test development project management staff collaborated with ADE staff, with input from ELP advisory committees, to develop item specifications and blueprints to guide the item and test development process for each of the stages.

### **3.2 Item Specifications**

Beginning in May 2011, as the first step in the development of item specifications, WestEd undertook a comprehensive and systematic evaluation of the Arizona ELP Standards in order to determine which of those instructional standards were considered assessable for the new AZELLA. In particular, WestEd sought to identify ELPS that could be operationalized through item specifications to guide development of K-12 assessments to measure proficiency across the four primary domains of Listening, Speaking, Reading, and Writing. The determination of assessment content was based on an iterative judgment-based process involving ADE staff, the Arizona ELP Advisory Committee, and WestEd staff. The steps involved with the development of the item specifications as well as the final version of the item specifications for AZELLA are contained within the AZELLA Field Test Technical Report (Arizona Department of Education, 2013c). The item specifications were updated further following the results of the field test to reflect the subsequent decisions about assessable content and to ensure consistency with the format and content of the items as they appeared on the final forms.

### 3.3 Test Blueprint

The Test Blueprint, in concert with the Item Specifications, defines the content and structure of the test. The blueprint defines the standards to be assessed for each test form, the number of items per standard, the number of item types, the number of points per item type, and the total number of items and points per test form. Inherent in the number of points per test is the relative weighting associated with the standards and, in the case of AZELLA, the domains being assessed. For this test, it was particularly important to consider the relative weight of reading and writing versus speaking and listening across the stages. This point will be addressed more fully below.

The development of the test blueprint was done in parallel with the item specifications. Once WestEd content and assessment staff identified the assessable content, the initial test blueprints were drafted based on the number of PIs determined to be appropriate for a statewide assessment. These determinations were based on the 2011 ELP Standards and the continued use of a primarily paper-and-pencil assessment. In addition, the ADE identified by stage the target percentages for the domains that were to be considered in determining the test blueprints. These targets were based on the increasing importance of reading and writing to student success in the regular classroom. As a consequence, the relative percentage of the composite of reading and writing increases from 43 percent at Stage 1 to 60 percent at Stage V. The specific targets by stage are summarized below.

- For Stage I, at least 43 percent of the composite score shall be composed of the reading and writing subdomain scores, with at least 20 percent of the composite score composed of the reading score.
- For Stage II, at least 52 percent of the composite score shall be composed of the reading and writing subdomain scores, with at least 25 percent of the composite score composed of the reading score.
- For Stage III, at least 55 percent of the composite score shall be composed of the reading and writing subdomain scores, with at least 28 percent of the composite score composed of the reading score.
- For Stage IV, at least 60 percent of the composite score shall be composed of the reading and writing subdomain scores, with at least 30 percent of the composite score composed of the reading score.
- For Stage V, at least 60 percent of the composite score shall be composed of the reading and writing subdomain scores, with at least 29 percent of the composite score composed of the reading score.

An iterative process was enacted for both the development of the Item Specifications and the development and review of the Test Blueprint. WestEd's content and development staff drafted an initial blueprint for each stage based on the criteria outlined above. These draft blueprints were submitted to ADE for review. Adjustments were made as requested and then the drafts were submitted to the ELP advisory committee for its consideration. Following the approval of the ELP Advisory Committee, the item development targets for the item writing workshops were developed.

As with the Item Specifications, the Test Blueprint continued to be refined over time reflecting information gained from item performance and scoring of the pilot items. Table 3.1 below summarizes the percentages by stage and domain.

**Table 3.1. AZELLA Blueprint**

<b>Domain/Standard</b>	<b>Kindergarten Placement</b>	<b>Stage I</b>	<b>Stage II</b>	<b>Stage III</b>	<b>Stage IV</b>	<b>Stage V</b>
<b>Reading</b>	<b>17%</b>	<b>28%</b>	<b>34%</b>	<b>32%</b>	<b>33%</b>	<b>33%</b>
Print Concepts/Phonemic Awareness/Decoding	43%	50%	44%	35%	25%	21%
Comprehension	57%	50%	56%	65%	75%	79%
<b>Writing</b>	<b>5%</b>	<b>28%</b>	<b>26%</b>	<b>32%</b>	<b>33%</b>	<b>33%</b>
Applications	0%	33%	32%	39%	36%	36%
Conventions	0%	67%	68%	62%	50%	39%
Process/Elements/Research	100%	0%	0%	0%	14%	26%
<b>Listening</b>	<b>31%</b>	<b>22%</b>	<b>19%</b>	<b>17%</b>	<b>16%</b>	<b>16%</b>
Comprehension	100%	100%	100%	100%	100%	100%
<b>Speaking</b>	<b>48%</b>	<b>22%</b>	<b>21%</b>	<b>19%</b>	<b>18%</b>	<b>18%</b>
Delivery	50%	71%	88%	88%	88%	88%
Repeats	50%	29%	13%	13%	13%	13%

NOTE: Percentages sum to 101 due to rounding.

### **3.4 Description of AZELLA Tests**

The test blueprints were used with the processes described in detail in Chapter 4 to develop the Kindergarten Placement Test and Stages I through V tests. The resulting test configurations are as follows.

#### **3.4.1 Kindergarten Placement Test**

The Kindergarten Placement Test consisted of 38 items from four domains (Listening, Speaking, Pre-Reading, and Pre-Writing) that were locally scored by certified test administrators. The raw scores ranged from 0-42, and scale scores were designed to range from 100 to 300.

#### **3.4.2 Stages I through V Assessments**

Stages I through V tests consisted of 49 to 70 items from four domains (Listening, Speaking, Reading, and Writing), depending on the stage. The ranges of raw scores and scale scores for Total Combined are summarized by stage in table 3.2. Note that because speaking items were, generally, scored on a 4-point rubric, the scores for non-speaking items on Stages II through V were weighted twice as much as those for speaking items to meet the weight of each domain in the blueprints.

**Table 3.2. AZELLA Assessment Total Combined Score Range by Stage**

Stage	Raw Score Range	Scale Score Range
I	0-64	2000-3000
II	0-148	2000-3000
III	0-164	2000-3000
IV	0-172	2000-3000
V	0-172	2000-3000

## Chapter 4. TEST CONSTRUCTION

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This part of the technical report addresses Standards 1.6, 3.1, 3.5, 3.6, 3.7, 3.9, 3.11, 3.16, 6.4, 6.15, 7.3, 7.4, 7.7, 13.3, and 13.5 of the *Standards for Educational and Psychological Testing* (AERA, APA, NCME 1999) and Standards 1.11, 3.2, 3.6, 4.0, 4.4, 4.6, 4.7, 4.8, 4.10, 4.12, 7.0, 7.2, 12.4, 12.8 in the new edition of the *Standards for Educational and Psychological Testing* (AERA, APA, NCME 2014).

### 4.1 General Goals of Spring 2017 AZELLA Reassessment Test Construction

The Spring 2017 Reassessment test development and review process generally followed the same process as that used for the Spring 2014 through Spring 2016 Reassessment. The primary goal of the test construction was to develop one Spring 2017 Reassessment form per stage which would be parallel to the previous years' Reassessment forms in terms of content and psychometric criteria. ADE initially pulled a form by replacing approximately 20 percent of the Spring 2016 Reassessment form. WestEd and Pearson reviewed the form from the content and psychometrics perspectives, respectively. Then ADE considered the advice of WestEd and Pearson and made any revisions deemed appropriate for the final form.

### 4.2 Speaking Test Books

At Stages I through V, it was determined that, for the Speaking Test Books, no changes would be made to the selection of items on the forms.

### 4.3 Item Selection Criteria

Approximately 20 percent of the operational test in Listening, Reading, and Writing for the Spring 2017 test was refreshed. The Spring 2016 items that were flagged by ADE based on item statistics were prioritized for replacement. These priorities took into consideration the item statistics (point-biserial correlation, IRT INFIT and OUTFIT statistics), both uniform and non-uniform DIF for or against any subgroup, as well as interrater reliability (Kappa statistic) and both Domain and Total reliability. New operational items were selected based on item performance from the prior administrations.

In addition to replacement items, the Spring 2017 Reassessment included newly developed field-test items. These items were developed for field testing based on an analysis of the existing item pool, which was performed by ADE. The analysis identified gaps that might be filled by newly field-tested items.

### 4.4 Form Construction Process

ADE, Pearson, and WestEd worked collaboratively to construct the Spring 2017 AZELLA Reassessment test. The steps taken for the Spring 2017 Reassessment test construction are outlined below.

#### Step 1. Development Plan

A development plan was created to inform item and form development. A gap analysis process was used to determine the priorities for new item development. The first step in the development plan was to identify all the items that were on the Placement and Reassessment tests. For all

items, item statistics and metadata were evaluated. The second step was to review all the additional items included in the item bank. Standards and performance indicators that were underrepresented in the item bank, or were represented by items with poorly performing statistics, were identified as candidates for item development. Based on this gap analysis, the development plan for newly developed items in Listening, Writing, and Reading (LWR) and in Speaking (SPK) to be spread across various numbers of forms per stage was created. This development plan is summarized in table 4.1.

**Table 4.1. Development Plan**

Component	Stage I	Stage II	Stage III	Stage IV	Stage V
<b>LWR Unique forms</b>	3	1	4	4	4
<b>LWR Total forms</b>	3	5	6	6	5
<b>LWR Answer documents</b>	N/A	N/A	6	6	5
<b>LWR FT items</b>	30	11	44	47	46
Listening Scripts	3	1	4	4	4
Listening CDs	3	1	4	4	4
<b>SPK Unique forms</b>	2	5	6	6	5
<b>SPK Total forms</b>	3	5	6	6	5
<b>SPK FT items</b>	6	14	20	20	16

NOTE: LWR: Listening, Writing, and Reading; SPK: Speaking

### Step 2. Item Development

ADE provided field-test items for inclusion on the Spring 2017 Reassessments. New items were developed and reviewed by educators under the supervision of ADE. Item writing committee meetings were held in March of 2016. A diverse group of educators were provided with training and resource materials needed to create new passages and items. The training included the Principles of Universal Design and the stated goal of maximizing accessibility and minimizing construct irrelevant demands for all items. To meet these goals, text complexity was controlled, graphics were designed to be clear, and subject matter that might affect the student’s performance was monitored. New Reading item passages were analyzed for Lexile and text complexity to ensure that items would be within an appropriate range for the stage. Throughout the committee work, grade-level teachers recommended topics that students would be familiar with because they were aligned to academic standards and materials used in classrooms. Language used for scripted directions was carefully constructed to avoid any unnecessary complexity.

In April 2016, a different group of educators reviewed these newly developed items for fairness, sensitivity to cultural differences, and adherence to the ELP Standards. Following the alignment, bias, and sensitivity reviews, the Office of English Language Acquisition Services reviewed the items to ensure they appropriately represented the ELP Standards, were Stage and grade appropriate, and were fairly aligned to general instruction practices for EL students.

### Step 3. Field-Test Selection Hand Off

ADE finalized the content of the field-test items and then provided that content to WestEd and Pearson, along with the associated metadata, intended positions on the tests, Test Administration Directions (TAD) text, and script language, specific to items when appropriate.

### Step 4. Material Preparation for Item Selection

The following materials were compiled by WestEd and Pearson and made available to ADE staff:

- Stage-specific test construction blueprints
- Item cards, which included the wording and metadata for each item as well as item statistics and staff notes
- Spring 2016 item-level and test-level statistics
- Preliminary production test maps

WestEd provided preliminary Spring 2017 production test maps to ADE as a starting place for test construction. The test map included references to the Spring 2016 item positions, but ADE had discretion to reposition field test and operational items, based on similar content, as long as the position for any item identified as an anchor was not changed.

### Step 5. Item Selection and Positioning

Data on all available items' performance was available in May 2016. Item statistics included, but were not limited to, classical difficulty ( $p$ -value) and item response theory difficulty (Rasch), item discrimination (Point Biserial Correlation by Total score and by Domain score), the Rasch model fit indices (Infit/Outfit), differential item functioning flags as a measure of possible bias, coefficient alpha, kappa, and distractor analysis across multiple years of test administration. ADE used this data, embedded in their item selection spreadsheets. This provided interactive test difficulty distribution graphs, along with blueprint requirements and dispersion of the coverage of the assessed standards. These critical tools were used to inform preliminary item selections for the 2017 Reassessment. This data reflected analyses performed on each item, starting with the 2012 field test through the Spring 2016 Reassessment including the item's most recent administration. Items with weak statistics were identified and prioritized for replacement. ADE then determined the specific locations for placement of the operational and field-test items, updated the preliminary production test maps based on their intent, and delivered the first draft of the 2017 production test map to WestEd.

WestEd and Pearson staff verified that the proposed operational positions followed the test construction guidelines, embedded in a production testmap template. WestEd and Pearson convened a conference call to provide feedback and to discuss and resolve queries from ADE.

### Step 6. Field-Test Verification

WestEd reviewed the newly embedded field-test items against the operational items for cueing (one item giving the answer for another item) or clanging (verbiage that causes the reader to be jarred) and provided feedback to ADE for their consideration and determination. WestEd returned revised test maps to ADE and Pearson for review and approval.

ADE psychometricians, in association with their content team, also reviewed and identified which items would serve as anchor items for the 2017 Spring assessment. The rules for anchor selections were:

- Items must appear within two positions of the prior administration location.
- The anchor set must represent approximately 30 percent of total score points.
- The content for the anchor set must closely match the percentages within the full test blueprint.

Anchor selections were reviewed and approved by Pearson.

#### Step 7. Sampling Plan

When a list of schools that would participate in Spring 2017 Reassessment was received from ADE, a Pearson psychometrician made a plan for form assignment prior to the test administration. A goal of the form assignment plan was to have at least 1000 responses per field-test item so that representation of each item, and score point for open-ended items, would be obtained for item calibration. Note that all students who participated in the Spring 2017 Reassessment were a part of field testing as the field-test items were embedded to each operational form. Forms were assigned completely at random at a school level with the only differences between forms within a stage being the field-test items assigned to the form.

#### **4.5 Production and Review of Print-Ready Forms and Ancillary Materials**

The general instructions of the Test Administration Directions (TAD) were revisited in advance of Student Test Book production. WestEd updated the general text to reflect the new administration and then uploaded the revised materials for ADE review. ADE provided markup based on the most recent administration experience; then WestEd revised accordingly. A second round of reviews of the general directions in the TAD was performed in tandem with the stage-specific section of this document after item selection and placement were finalized.

After the updates to the general instructions in Section 1 of the TADs, the next step entailed updates to the Speaking Test Books for Stages I through V, since there were no changes to anything except the covers. ADE reviewed the forms, and the print-ready copies were handed off to Pearson.

Production then shifted to the Listening, Reading, and Writing portions of the Stage I, II, III, IV, and V Student Test Books, with simultaneous review of the stage-specific TADs.

The Student Test Books (Listening, Reading, and Writing) and the Listening Scripts, for all stages, and the Answer Documents, for Stages III, IV, and V, went through multiple rounds of ADE review. For the Round 1 review, WestEd provided the forms to ADE in PDF format, laid out as the student would see the items presented. ADE then reviewed the documents and returned marked-up pages to WestEd with a summary of changes. For the Round 2 review, WestEd implemented all Round 1 changes and repeated the process. The Listening Scripts for each stage were handed off to the audio vendor after Round 2. The Round 3 review finalized the Student Test Books.

Once ADE completed the three rounds of review of the Student Test Books, the Test Administration Directions for each stage received one additional round of review and change implementation.

Once each document received final approval from ADE, the print-ready files were produced by WestEd and reviewed by ADE prior to WestEd's submittal to Pearson for printing and distribution.

For the audio associated with the Listening domain, final scripts were handed off to Pyramid, the audio vendor, for recording. After recording, WestEd and ADE completed two rounds of review before signing off on the creation of the master files for the assessment.

#### **4.6 Development and Review of Test Maps**

Test maps for each stage were maintained throughout all steps of production. The test maps were updated when any replacements or changes to items or item metadata were made. Once ADE approved the print-ready files, the test maps for the approved tests were finalized and uploaded to ADE and Pearson.

#### **4.7 Item Development for Revised Kindergarten Placement Test**

Based on a commitment to the continuous improvement of Arizona's English Language Proficiency Assessments, the AZELLA Placement Test for Kindergarten has undergone a revision process with the revised assessment in use for the 2017-2018 school year. The goal of the revision process is to replace approximately 60 percent of items currently on the test to optimize the overall test performance and to provide better discrimination around the Proficient cut score. Note that, starting in school year 2016-2017, the Proficient cut on the Kindergarten Placement Test increased to 257 from 245.

Content-based improvements on the new Kindergarten Placement Test blueprint were informed by the WCEPS report (Christopherson and Webb 2013). Analysis for Categorical Concurrence, Depth-of-Knowledge, Range of Knowledge, and Balance of Representation, plus any Source of Challenge elements and notes, was reviewed to identify items for potential revision or replacement.

##### **4.7.1 Item Development Procedure**

Item statistics and content of the current Kindergarten Placement Test were carefully reviewed by ADE to identify needs for the revised Kindergarten Placement Test. The gap analysis concluded that there would be needs for 1) more difficult items, 2) more discriminating items, 3) improving scoring rubrics, 4) better sampling of the English Language Proficiency standards, and 5) items with increased language production (Listening/Speaking Standard 2).

Beginning in August 2015, ADE initiated their plan to develop new items for field testing for the revised Kindergarten Placement Test. Utilizing the findings from the gap analysis, an educator committee met on January 9, 2016 to review existing test items and make recommendations for retaining items, improving existing items, or eliminating weak or redundant items. The committee made recommendations for improving items and designing new item types.

Committee resources included fully annotated test item cards, Arizona’s ELP Standards and Performance Level Descriptors, and Arizona’s Early Learning Standards.

The draft items were further developed and a series of reviews was performed by the ADE’s Office of English Language Acquisition Services and vendor content specialists. On February 20, 2016, items were carefully reviewed by a special committee of educators to check that content was appropriately aligned to the ELP Standards, developmentally appropriate for the age group, culturally sensitive and devoid of bias, following Principles of Universal Design, and meeting standards for accuracy and visual presentation.

#### 4.7.2 Field Test

Since the Kindergarten Placement Test form did not have embedded field-test slots, field-test forms needed to be created. Six field-test forms with three to six field-test items per form were constructed. In each form, only one of the four parts of the test had field-test items added. Thirty-two new items were included in the field test and distributed among the six forms as shown in table 4.2 below.

**Table 4.2. Kindergarten Placement Test Field-Test Design**

Test Section	Form C	Form D	Form E	Form F	Form G	Form H
<b>1. Let’s Get to Know Each Other!</b>	10 OP + 6 FT	10 OP				
<b>2. Picture Time!</b>	9 OP	9 OP + 6 FT	9 OP	9 OP	9 OP	9 OP
<b>3. Let’s Talk!</b>	16 OP	16 OP	16 OP + 6 FT	16 OP + 6 FT	16 OP	16 OP
<b>4. Story Time!</b>	3 OP	3 OP	3 OP	3 OP	3 OP + 5 FT	3 OP + 5 FT
<b>Total Items</b>	38 OP + 6 FT	38 OP + 5 FT	38 OP + 5 FT			

NOTE: OP = operational item, FT = field-test item

Since Kindergarten Placement Test administrators must complete test administration training and obtain qualification that was specific to the test form, a field-test sample that minimized the number of schools included in the field test was used. Each school selected for the field-test sample only administered one field-test form. This minimized the number of test administrators who completed specialized field-test training and limited their training and qualification requirements to only one test form.

The goal of the field test was to collect at least 500 responses on each field-test item to conduct classical test theory analysis, IRT calibration and equating, and DIF analysis. Based on the last three years of Placement administration data, 54 schools that have administered the Placement test to an average of 50 or more students during the first quarter of the school year were identified. These 54 field-test schools, out of the 1097 schools that administered KPT

assessments in the 2016-2017 school year, in total administered more than 4000 tests in the first quarter of that school year.

These 54 schools were divided into six field-test sample groups, each of which was assigned a single field-test form. These six sample groups were constructed to be as similar as possible with respect to the demographic information, primary language, and performance on KPT in the first quarter of 2015-2016 Placement administration, and all were similar to the state population.

## Chapter 5. TEST ADMINISTRATION

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This section describes how the AZELLA Kindergarten Placement Test, the AZELLA Placement Test for the 2016-2017 school year, and the Spring 2017 AZELLA Reassessment were administered. It describes the administration procedures used to ensure that the test administrations were completed in a secure and standardized manner. It also describes how the test administration for Speaking was different from other domains. The following 1999 AERA/APA/NCME standards (AERA, APA, NCME 1999) are addressed: 1.13, 3.3, 3.19, 3.20, 3.21, 3.24, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.11, 6.15, 9.1, 10.1, and 10.2. The 2014 AERA/APA/NCME standards (AERA, APA, NCME 2014) addressed by this part of the technical report are 1.10, 3.1, 3.9, 3.10, 4.2, 4.5, 4.15, 4.16, 4.21, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 7.0, 7.8.

### 5.1 Accommodation

There were a number of test accommodations that were available for students who took the AZELLA Placement Test and the Spring 2017 AZELLA Reassessment. A list of accommodations that were available or unavailable for the administration is presented by domain in table 5.1.

**Table 5.1. Test Accommodations**

<b>Accommodation</b>	<b>Acceptable</b>	<b>Not Acceptable or Not Applicable</b>
Allow frequent breaks	L, R, W	S
Allow the test administrator to read the prompts aloud, at student request	W	L, R, S
Allow a scribe to assist in bubbling answers for multiple choice items	L, R, W	S
Allow the use of assistive technology for the extended writing prompt response with spell check, grammar check, and word prediction functions turned off	W	L, R, S
Allow the enlargement of test material	L, R, W, S	
Allow the test to be administered over multiple days	L, R, W	S

NOTE: L: Listening; R: Reading; S: Speaking; W: Writing

The translation of the test by the test administrator into another language was not allowed. The use of dictionaries, word lists, or glossaries was not allowed in the administration of the AZELLA. Accommodations routinely provided to students during classroom instruction or for classroom assessments based on an IEP or 504 Plan not listed above must have been approved by ADE prior to their use during AZELLA administration.

### 5.2 Test Security

It is the responsibility of the AZELLA District Test Coordinator to provide for the training of test administrators and proctors in test security procedures and proper test administration. The AZELLA District Test Coordinator must monitor testing activities and ensure that protocols are

being followed. Test materials should be secured prior to, and at the conclusion of, all testing sessions. It is unethical and shall be viewed as a violation of test security for any person to:

- Disclose or allow to be disclosed the content of any portion of the test before, during, or after test administration.
- Discuss any test item before, during, or after test administration.
- Allow students access to test questions or writing prompts prior to testing.
- Allow students to share information during the test administration.
- Read any parts of the test to students except as indicated in the test administration directions.
- Influence students' answers.
- Change students' answer choices.
- Read or review students' answers.
- Photocopy, transcribe, or in any way duplicate any part of the test books.
- Participate in, direct, aid, counsel, assist in, encourage, or fail to report any violations of these test administration security procedures.
- Assist students in their responses to test questions.
- Translate, reword, or explain any test questions or any answer choices. No test question/item may be discussed before, during, or after test administration.

AZELLA District Test Coordinators, Test Administrators, and Proctors are referred to "Test Preparation and Administration Practices" developed and adopted by the Arizona Board of Education.

To ensure the security of AZELLA, test administrators and proctors must sign a copy of the AZELLA Test Security Agreement obtained from the Test Coordinator or found on the Arizona Department of Education website at [www.azed.gov](http://www.azed.gov).

### **5.3 Test Administration**

Mandatory district test coordinator training is provided by the ADE and Pearson for all AZELLA administrations (Placement and Reassessment). After participating in the state-mandated training, district test coordinators provide training to all school test coordinators who then train the test administrators. Training covers topics such as test security and test administration procedures. Since Placement Test administrators also are required to score student work, additional scoring training and qualification is required for all Placement Test administrators before districts are allowed to order test materials. In-person trainings are provided throughout the year at various locations. These trainings update educators on all aspects of test design and administration. These training materials are also provided online.

Sample Tests were available on the ADE website to help students prepare for the annual Spring Reassessment. The Sample Tests were created to provide educators with a tool to help students feel comfortable and confident when taking the AZELLA. The items included in the Sample Test represent various common item types that a student would encounter on the AZELLA. A Teacher's Edition was also provided that included the directions, scripts, rubrics, and other support materials needed to administer and score each section of the Sample Test. The goal in

providing these materials was to maximize the opportunity for students to demonstrate their performance on the intended construct on the AZELLA assessments.

### **5.3.1 Kindergarten Placement Test Administration and Scorer Training**

In order to properly administer and score the Kindergarten Placement Test, Test Administrators need to be trained and qualified. Trainings are provided so that scores will appropriately reflect the student's English language proficiency.

#### **5.3.1.1 Operational Test Training**

Prior to administering the Kindergarten Placement Test (KPT), test administrators were required to complete the Kindergarten Placement Test Training on the Understand Scoring website. The Kindergarten Placement Test Training provided instruction on test administration and scoring.

The scoring portion of the training was in three parts: Training Set, Practice Set, and Qualification Sets. The Training Set offered sample student responses at each score point for each item of the Kindergarten Placement Test. The Practice Set allowed the user to listen to and score responses for each item on the test. The Practice Set items were annotated to provide additional instruction on applying the scoring rubric. The Qualification Sets were the last step in the training. There were two Qualification Sets available to the users. To qualify for a KPT Test Administrator Qualification Number, the candidate must (a) correctly score 5 one-point items, (b) correctly score 2 two-point items, and (c) have a matching or adjacent score for Item 38, a 3 point item, on one of the two Qualification Sets. Training for the 54 schools administering the KPT field test is described in Section 5.3.1.2.

The AZELLA Kindergarten Placement Test requires a one-on-one test administration and ranges from approximately 14 to 22 minutes per student. The following test materials are required to administer/score the test: Student and Test Administrator Test Book, Student Response Sheets, Laminated Activity Card, erasable marker, and two types of stickers (one for the beginning and one for the end of the test).

The Student and Test Administrator book is designed to stand up on a flat surface. One side should face the Test Administrator and one side should face the student. Scoring for each item is recorded as the Test Administrator reads an item and the student gives a response. The score point and rubric for each item are on the student response sheet. The Test Administrator records scores for student responses on the student response sheet. The District Test Coordinator, or their delegate, key enters student scores into the Placement Scoring application to obtain the student's Overall Proficiency Level.

#### **5.3.1.2 Field-Test Training**

To train district and school assessment personnel from the 54 districts that were assigned KPT forms that contained field-test items (Forms C – H), ADE created the *AZELLA Kindergarten Placement Test – Field Test Training for AZELLA District Test Coordinators* and the *Kindergarten Placement Test -Field Test Training for Test Administrators* for each test form. These forms were administered during the first four testing cycles of the 2016-2017 school year which ran from July 21, 2016 to September 16, 2016. The training materials were posted in the AZELLA Placement Training webpage on July 6, 2016.

In the *AZELLA Kindergarten Placement Test – Field Test Training for AZELLA District Test Coordinators*, District Test Coordinators were advised to supply their qualified Kindergarten Test Administrators with the URL link to the field-test training sessions by form. These sessions contained the secure field-test items along with their scoring criteria, student response examples, and annotations. Each qualified Kindergarten Test Administrator who was going to administer the field test printed a copy of the specific form training as a scoring resource. All qualified test administrators were required to complete the form session verification associated with the corresponding form. Once the field-test window was complete, District Test Coordinators were advised to collect all printed training presentations from their test administrators and securely destroy/shred them. The District Test Coordinators then sent ADE an email certifying the quantity of each form presentation that was printed and destroyed and the date these materials were destroyed.

### **5.3.2 AZELLA Placement Test Stages II through V Training and Administration**

Prior to administering the AZELLA Placement Test in Stages II through V, test administrators were required to complete the AZELLA Placement Test Stages II-V Training on the Understand Scoring website. This training provided instruction on scoring the Writing portion of the AZELLA Placement Test. The training was stage specific and users only qualified on the applicable Stage(s). The Writing scoring training comprised three parts: Training Set, Practice Set, and Qualification Sets. The Training Set offered sample student responses at each score point for each open-ended Writing item for each stage of the AZELLA Placement Test Stages II-V. The Practice Set allowed the user to read and score Writing responses for each open-ended Writing item on the test. The Practice Set items were annotated to provide additional instruction on applying the scoring rubric. The Qualification Sets were the last step in the training. There were two Qualification Sets available to the users. To be considered qualified to score Writing responses, users must exactly match the correct score for least seven of each set of 10 papers with either adjacent or exact scores on the other three. This translates to a lowest possible qualification of 70 percent exact accuracy and 30 percent adjacent accuracy over the 20 papers.

To promote a standardized AZELLA test administration, the domains are administered in a prescribed order. The order of administration for AZELLA Placement Test Stages II-V is Listening, Reading, Writing, and Speaking.

Test administrators are instructed to administer the AZELLA Placement Test in one or two days. Each domain is considered a testing session. In a two-day administration, Sessions 1 (Listening), 2 (Reading), and 3 (Writing) are administered on the first day, and Session 4 (Speaking) is administered on the second day. Because the Speaking session is administered individually, students do not all complete the Speaking session on the same day.

The following test materials summarized in table 5.2 are provided for the AZELLA Placement Test Stages II-V test administrations:

**Table 5.2. AZELLA Placement Test Stages II-V Test Materials**

<b>Stage</b>	<b>Combined Student and Speaking Test Book</b>	<b>Answer Document</b>	<b>Listening CD</b>	<b>Test Administration Directions</b>
Stage II	X	N/A	X	X
Stage III	X	X	X	X
Stage IV	X	X	X	X
Stage V	X	X	X	X

The AZELLA *Test Administration Directions* (TAD) are provided to all test administrators. The TAD includes scripted directions to guide test administrators and students through the test administration in a secure and standardized manner.

The Listening domain requires the use of an audio CD and CD player. The Listening CDs deliver directions, samples, and test items for the Listening domain. The students respond to multiple choice questions in their student test book (Stage II) or answer document (Stages III-V).

The Reading and Writing domains are delivered by the test administrator using scripted directions provided in the TAD. The Writing items include multiple choice and open-ended items, and the Reading items are multiple choice only. Student responses are captured via the consumable student test book (Stage II) or the answer document (Stages III-V).

The Stages II-V AZELLA Speaking Test is delivered via speaker telephone using Pearson Assessment Product Solutions' (Pearson APS) Versant platform. Test administrators enter a unique Speaking test lithocode using the telephone key pad to call up the assigned form for each student. Student responses are captured electronically via the speaker telephone and transmitted back to Pearson for scoring. Stimuli related to the item prompts are included in the Speaking Test Book. After testing, the District Test Coordinator, or their delegate, key enters student responses for the Listening, Reading, and Writing domains into the Placement Scoring application to obtain the student's Overall Proficiency Level.

### **5.3.3 Spring Test Administration**

To promote a standardized AZELLA test administration, the domains were administered in a prescribed order. The order of administration for Stages I-V was Listening, Reading, Writing, and Speaking.

Test administrators were instructed to administer AZELLA in one or two days. Each domain was considered a testing session. In a two-day administration, Sessions 1 (Listening), 2 (Reading), and 3 (Writing) were administered on the first day and Session 4 (Speaking) was administered on the second day. Because the Speaking session was administered individually, students did not all complete the Speaking session on the same day.

The Listening domain required the use of an audio CD and CD player. The Speaking domain required the use of a computer or video player for the demonstration video and also required a land-line speaker-telephone.

The following test materials summarized in table 5.3 were provided for AZELLA Spring 2017 AZELLA test administration:

**Table 5.3. Test Materials**

<b>Stage</b>	<b>Test Book</b>	<b>Speaking Test Book</b>	<b>Answer Document</b>	<b>Listening CD</b>	<b>Test Administration Directions</b>
Stage I	X	X	N/A	X	X
Stage II	X	X	N/A	X	X
Stage III	X	X	X	X	X
Stage IV	X	X	X	X	X
Stage V	X	X	X	X	X

The AZELLA *Test Administration Directions* (TAD) were provided to all test administrators. The TAD included scripted directions to guide test administrators and students through the test administration in a secure and standardized manner.

The Listening domain required the use of an audio CD and CD player. The Listening CDs delivered directions, samples, and test items for the Listening domain. The students responded to multiple choice questions in their student test book (Stages I and II) or answer document (Stages III-V).

The Reading and Writing domains were delivered by the test administrator using scripted directions provided in the TAD. The Writing items included multiple choice and open-ended items and the Reading items were multiple choice only. Student responses were captured via the consumable student test book (Stages I-II) or the answer document (Stages III-V).

The Stages I-V AZELLA Speaking Test was delivered via speaker telephone using Pearson Assessment Product Solutions' (Pearson APS) Versant platform. Test administrators entered a unique Speaking test lithocode using the telephone key pad to call up the assigned form for each student. Student responses were captured electronically via the speaker telephone and transmitted back to Pearson for scoring. Stimuli related to the item prompts were included in the Speaking Test Book. Unlike the Placement Administration, Reassessment test books (Stages I-II) and answer documents (Stages III-V) were returned to Pearson for scanning and scoring.

## **Chapter 6. SCORING OF OPEN-ENDED ITEMS**

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The AZELLA assessments contain Writing items that prompt students to write a short answer or extended response (i.e., a paragraph) and Speaking items that prompt students to orally generate a short answer. Such items are called open-ended items. This chapter describes the procedures used by the Pearson Performance Scoring Center to score the AZELLA Reassessment Writing and Speaking items. This chapter also describes procedures used by Pearson APS for automated scoring of the Speaking items for the Stages I through V AZELLA Reassessment Tests and Stages II through V Placement Tests. All open-ended items in the Kindergarten Placement Test and open-ended Writing items in AZELLA Placement Tests Stages II through V are scored by the test administrator during testing. This part of the technical report addresses Standards 2.10, 3.22, 3.23, and 5.9 of the *Standards for Educational and Psychological Testing* (AERA, APA, NCME, 1999) and Standards 2.7, 4.18, 4.19, 4.20, 6.8, and 6.9 in the new edition of the *Standards for Educational and Psychological Testing* (AERA, APA, NCME, 2014).

### **6.1 Human Scoring of Writing and Speaking Items**

The open-ended writing items are scored by professionally trained scorers. The procedure for scoring these types of items used by the Pearson Performance Scoring Center (PSC) is described in this section. Speaking items are scored by machine with 10 percent human read-behind as a check for reliability.

#### **6.1.1 Scoring Process**

Outlined below is the scoring process that the AZELLA testing contractor follows. For the Spring 2017 AZELLA tests, AZELLA Stages I through V Writing was scored at a regional site. This procedure was used to score all open-ended items for the Spring 2017 AZELLA assessments.

#### **6.1.2 Rangefinding**

Six Speaking Rangefinding meetings and two Writing Rangefinding meetings took place prior to scoring during fiscal year 2017. Two ADE Assessment staff members, an Arizona EL educator, and two Scoring Services staff members participated in the meetings. The Speaking meetings took place every Friday between February 24 and March 31 with ADE staff in Phoenix and Scoring Services staff in Iowa City and San Antonio. Eighty-one Speaking Field-Test items spanning Stages I through V were discussed over the course of these six meetings. Seven Pearson Scoring Directors participated as the items they were responsible for training were discussed. Each meeting began with the participants listening to the responses for the item and reviewing the appropriate rubric before beginning the scoring and discussion of these responses. After the discussions and scoring were completed, the training sets were selected for the prototype training items.

The Stage I Writing Rangefinding meeting took place on April 7, 2017, with two Scoring Services representatives attending in San Antonio and two ADE representatives attending in Phoenix. The committee reviewed six Stage I field test items and rubrics. The responses were then scored and discussed and a consensus was reached when possible. The training responses were then selected.

The Stage IV Writing Rangefinding meeting took place on April 10, 2017 in San Antonio, with two Scoring Services representatives and two ADE representatives. The committee reviewed one Stage IV FT item and rubric. The responses were then scored and discussed and a consensus was reached when possible. The training responses were then selected.

### **6.1.3 Recruiting and Training Scorers**

Highly qualified scorers are essential to achieving and maintaining a high degree of reliability in scoring students' responses. Thus, the careful selection of professional scorers to evaluate student responses to the open-ended items is critical in scoring the AZELLA assessments. Scorers are recruited by the Pearson Human Resources department and scorers who have extensive experience scoring this type of writing and speaking on previous projects are given first priority. Scorers receive performance ratings based on internal quality metrics of interrater reliability and validity. Those who have achieved a high performance rating on previous writing and speaking responses are recruited for the AZELLA assessment. Included in the scorer pool is a core group of veteran scorers with experience in working on other EL projects whose insight, flexibility, and dedication have been demonstrated while working on a range of performance assessments.

Scoring supervisors are chosen from the pool of scorers based on demonstrated expertise in all facets of the scoring process, including strong organizational abilities and training skills. Individuals chosen to perform these assignments possess practical skills, leadership abilities, and sensitivity to interpersonal communication requirements. Supervisors also possess the essential capability of helping scorers understand the particular scoring requirements of the AZELLA.

Upon being hired, scorers sign a confidentiality agreement in which they pledge to keep all information and student responses confidential. Scorers and scoring supervisors are trained to thoroughly learn the rubric and score responses according to the scoring guidelines developed for the AZELLA assessment.

At the beginning of each scoring project, all scoring supervisors and scorers assigned to the project must complete project-specific training consisting of a review of the rubric and prompts for the items being scored and a review of the anchor responses selected and approved by ADE for each prompt.

### **6.1.4 Training**

Thorough training is vital to the successful completion of any scoring. PSC content specialists and scoring directors follow a series of prescribed steps to ensure training is consistent and of the highest quality. The PSC staff develops its training materials to facilitate learning through visual, auditory, and kinesthetic channels. The training for AZELLA is conducted using online modules designed to take scorers through the background of the assessment and through the rubric and anchor sets for each item. Scorers are then required to take two sets of practice papers and two sets of qualification papers once they complete the item-specific modules. The scorer must then pass one of the two qualification sets based on the passing standards in table 6.1 in order to score the item or items associated with that module. Once the scorer completes the item-specific training and has qualified, the scorer is then allowed to score live responses for that item or set of items. There are different scoring rubrics for the different item types on the AZELLA.

Prior to scorer training, the PSC scoring directors designated for each subject and stage conduct supervisor training. A primary goal of this session is to ensure supervisors clearly understand the scoring rubrics and anchors for the stage they are assigned. This ensures all responses are scored in a manner consistent with the intentions of ADE. Scoring supervisors are then required to take two sets of practice papers and two sets of qualification papers once they complete the item-specific modules. Supervisors must pass one of the two qualification sets for the items they are assigned in order to score on the project. Supervisors perform a key role in that they provide continuous feedback to the scorers through the validity and calibration process, and they monitor the quality of their assigned scorers.

**Table 6.1. Passing Standards for Scores and Supervisors**

Stage	Domain	Score Points	Qualification %:	
			Perfect/Adjacent Agreement	Number of Sets
I	Speaking	0-1	80/100	1 of 2
		0-2	80/90	1 of 2
	Writing	0-1	80/100	1 of 2
		0-2	80/90	1 of 2
II	Reading	0-1	80/100	1 of 2
		0-3	80/90	1 of 2
	Speaking	0-4	70/90	1 of 2
		0-3	70/90	1 of 2
III	Reading	0-1	80/100	1 of 2
	Speaking	0-4	70/90	1 of 2
	Writing	0-5	70/90	1 of 2
IV	Reading	0-1	80/100	1 of 2
	Speaking	0-4	70/90	1 of 2
	Writing	0-5	70/90	1 of 2
V	Speaking	0-4	70/90	1 of 2
	Writing	0-5	70/90	1 of 2

### 6.1.5 Quality Control

A variety of reports are produced throughout the scoring process to allow scoring supervisory staff to monitor the progress of the project, the reliability of scores assigned, and individual scorers' work. Those reports include:

- Daily and Cumulative Interrater Reliability Reports by item and scorer. These reports provide information about how many times scorers were in exact agreement or assigned adjacent scores. The reliability is computed and is monitored daily and cumulatively for the project.
- Daily and Cumulative Frequency Distributions. These reports show how many times each score point has been assigned to the item being scored by readers. The frequency distributions are produced both on a daily basis and cumulatively for the entire scoring project. This report allows scoring supervisors and scoring directors to see whether scorers have a tendency to score consistently high or low.

The most immediate method of monitoring a scorer’s performance is through backreading by scoring supervisors. If a scoring supervisor discovers that a scorer is consistently assigning scores other than those the scoring supervisor would assign, he or she can send a message to that scorer using the backreading function and through the instant messaging system in the ePEN scoring system.

With the help of the individual scorer reliability metrics and through backreading, the scoring staff can closely monitor each scorer’s performance. Scorers are also monitored using the scorer exception process for validity and scoring rate. A scorer must meet and maintain the quality metrics established for AZELLA in the designated area in order to continue scoring the project. If a scorer fails to maintain the established validity perfect agreement and perfect plus adjacent agreement percentage, a scorer will receive a targeted calibration set. This set will consist of 10 anchor-type responses similar to a qualification set. If the scorer fails to pass the calibration set, they will be locked out of scoring and dismissed from the project. In addition, scorer exception can also be set for scoring rate; they may receive up to three warnings before being locked out of the ePEN system. The scoring staff will then determine if the scorer will be unlocked and allowed to continue scoring based on how they are performing according to interrater reliability (IRR) and validity statistics.

Scorers who have low IRR or a lower- or higher-than-desired scoring rate are closely monitored in backreading and through reports. If, in the opinion of the Scoring Director and Content Specialist, these scorers are still performing below acceptable standards after receiving sufficient feedback and being given every reasonable opportunity to improve, they are manually locked out of the system and dismissed from the project.

### **6.1.6 Security**

To ensure that test security is never compromised, the following safeguards are employed:

- All scorers must reside outside of Arizona.
- Scorers and scoring staff personnel must sign a non-disclosure and confidentiality form in which they agree not to use or divulge any information concerning the tests.
- Any and all contact with the press is handled through ADE.

## **6.2 Automated Scoring of Speaking Items**

This section describes how speaking items are scored. It includes information about what type of items are scored and how the scoring rubrics were developed. It also describes how the scoring engine was trained. It provides information about the reliability and validity of machine scoring.

### **6.2.1 Overview**

A machine algorithm scores both the content (what was said) and the manner of the students’ responses (how it was said). The machine scoring methods are based on algorithms and procedures from automatic speech recognition, speech processing, statistical modeling, linguistics, Latent Semantic Analysis, and machine learning. Pearson’s patented technology uses a speech processing method that is built to handle different rhythms and varied pronunciations used by native English speakers and English learners. In addition to recognizing the words that were uttered, the system also aligns the speech signal (i.e., it locates the part of the signal

containing relevant segments, syllables, and words to the hypothesized response). This allows the system to assign independent scores based on the content of what is said and on the manner in which it is said. Thus, the system is able to generate scores based on the words used in the spoken responses (the “content”), as well as the pace, fluency, and pronunciation of those words in phrases and sentences (the “manner”). Base measures are then derived from the linguistic units (segments, syllables, words), as analyzed by statistical models built from native and learner speaker performances.

Each AZELLA speaking item has one holistic score. Different features derived from speech were used to predict the final human holistic score. Oral Reading items, such as syllabification and wordlist, are separated from the calculation of the Speaking Domain score. The analysis for these Oral Reading items was conducted separately.

### **6.2.2 Acoustic Models**

An acoustic model was tailored to the AZELLA’s younger population of test takers. The model used for speech recognition was trained. The training set was enlarged by adding transcriptions from other junior English projects Pearson had conducted internally. The goal was to build a robust speech recognition model for young children’s oral responses. The final model used approximately 360 hours of data.

For machine scoring purposes, a native acoustic model was also needed. At the time of the acoustic model training, the demographic information for test takers was not available. Pearson hired human raters to classify Stage II test takers into native versus non-native groups by listening to their speech. There were 287 test takers in Stage II who were identified as putatively native. Transcriptions from these 287 subjects plus the native transcriptions Pearson used for building Versant Junior English tests were used to build a native acoustic model for the grading. It is important to note that this categorization of native versus non-native was rough due to the lack of available demographic information at the time of initial training. The acoustic model was enhanced by using the real demographic information before the operational testing started.

### **6.2.3 Content Modeling**

#### **6.2.3.1 Non-repeat items**

The content score component indicates how well the test taker understood the prompt and could respond with appropriate linguistic content. For non-repeat items, a holistic score for each response was produced by using an adapted form of Latent Semantic Analysis. These responses were scored by scaling the weighted sum of the occurrence of a large set of expected words and word sequences that may be recognized in the spoken response. Weights were assigned to the expected words and word sequences according to their semantic relation to the good responses using a method similar to Latent Semantic Analysis.

#### **6.2.3.2 Repeat items**

For sentence repetition items, the recognized string produced by the augmented speech recognizer was compared to the word string in the prompt. The number of word errors was calculated as the minimum number of substitutions, deletions, and/or insertions required to find a best string match in the response. This matching algorithm ignored hesitations and filled or unfilled pauses, as well as any leading or trailing material in the response. A verbatim repetition

would have zero word errors. For every repeat response, the percentage of words repeated correctly (percent correct) from automated speech recognition was then calculated as the Repeat Accuracy score.

### 6.2.3.3 Oral reading items

In 2017 there were two types of Oral Reading items. For syllabification items in Stages II and III, there was a binary score (0,1) based on the occurrence of the correct sequence of syllables. For wordlist-reading items in Stage II, up to three points were awarded based on the number of words, out of the three, that were correctly read. For wordlist-reading items in Stages III and IV, one point was awarded if the student correctly read all three words.

## 6.2.4 Manner Modeling

### 6.2.4.1 Fluency

Phoneme level duration statistics help to predict test takers' performance in fluency. It measures if test takers produce the correct duration for different phonemes.

Duration statistics from native speakers were used to compute the log likelihood for durations of phonemes produced by test takers. If enough samples for a phoneme in a specific word existed, a unique duration model was built for this phoneme in a given context. Special attention was paid to the pauses produced by candidates, and a separate predictor was computed based on them. The duration statistics models used for this report were built from native data from the Versant Junior English Test. The native responses were run through speech recognition, and duration data was accumulated for every phoneme. The statistics of the phoneme durations of native responses were stored as non-parametric cumulative density functions (CDFs).

In developing the CDFs, when the duration probability for a phoneme produced by a new native speaker was computed, a check was performed to see if there was the specific CDF model with the corresponding word first. If a model for the word in context could not be found, the phoneme duration without context was used. Given a sequence of phonemes in a recognized response  $p_i$ ,  $i = 1 \dots N$ , and their corresponding durations  $D_i$ , the log likelihood segmental probability for phonemes (*log\_seg\_prob*) was computed as:

$$\log\_seg\_prob = \frac{1}{n-2} \sum_{i=2}^{n-1} \log(Pr(D_i))$$

where  $Pr(D_i)$  was the probability that a native would produce phoneme  $p_i$  with the observed duration  $D_i$  in the context found. The first and last phonemes in the response were not used for the calculation of the *log\_seg\_prob* because durations of these phonemes were unstable as measured by speech recognition.

The log likelihood segmental probability for inter-word silence durations, *iw\_log\_seg\_prob*, was calculated the same way (i.e., given a sequence of inter-word silences  $s_i$ ,  $i = 1 \dots M$ , and their durations  $D_i$ ):

$$iw\_log\_seq\_prob = \frac{1}{M} \sum_{i=1}^M \log(Pr(D_i))$$

where  $Pr(D_i)$  was the probability that a native would produce inter-word silence  $s_i$  with the observed duration  $D_i$ .

#### **6.2.4.2 Pronunciation**

Pronunciation was measured by computing spectral likelihood features. These features were based on native and non-native acoustic models built for segmental alignment. The utterance to the word string from the recognized sentence was force-aligned using the native acoustic model. Then the acoustic log likelihood, duration, and time boundaries for every phoneme were reviewed.

#### **6.2.5 Final Model for Holistic Scores**

Features derived from content modeling can effectively define content scores based on what is spoken by test takers. Features derived from manner modeling can effectively measure both the rhythmic and segmental aspects of the performance by comparing them to how likely it would be for the observed base physical measures to have been produced by native speakers. By combining these features together, a prediction, with a relatively high level of accuracy, was made concerning the student's holistic scores assigned by human raters. Then multiple linear regressions and other related models were used to obtain the results discussed in the following sections.

#### **6.2.6 Validation Results**

During the 2017 spring reassessment testing, Pearson delivered over 70,000 AZELLA speaking tests over telephones. Students' oral responses to the speaking section of AZELLA reassessment test were captured and scored by Pearson's automated scoring technology. The present validation study was conducted to determine the comparability between machine scoring and human scoring. One hundred and seventy tests were selected for each stage and double-rated by professional human raters through Pearson Scoring Center (PSC). Pearson conducted an in-depth analysis on the performance of human raters and the machine-rating algorithm based on the candidate-level speaking scores. The goal of this summary is to present the results of these analyses.

##### **6.2.6.1 Data Overview**

A set of 170 calls were selected for each stage and double-rated by human raters at PSC. In total, 850 students' tests were used for the validation analysis, as shown in table 6.2. The number of speaking items included in the analysis for each stage with available human and machine scores is shown in table 6.3.

**Table 6.2. Total Number of Oral Reading/Speaking Tests Included in the Validation Analysis**

<b>Stage</b>	<b>Total Tests</b>
I	170
II	170
III	170
IV	170
V	170
Total	850

**Table 6.3. Total Number of Operational Oral Reading/Speaking Responses Included in the Validation Analysis**

<b>Stage</b>	<b>Items with Machine Score</b>	<b>Items with Human Scores</b>
I	850	850
II	1360	1360
III	1700	1700
IV	1190	1190
V	1190	1190
Total	6290	6290

#### **6.2.6.2 Reliability**

Before score analysis, a check was made on the internal consistency of the test by computing the coefficient alpha (Cronbach 1951) for both human scores and machine scores. Table 6.4 is a summary of results for each stage. The results show that the consistency of machine scoring (average 0.86) is very comparable to human scoring (average 0.84). Both machine scoring and human scoring methods are highly reliable.

**Table 6.4. Coefficient Alpha on Operational Oral Reading/Speaking Test across Stages**

<b>Stage</b>	<b>Human Coefficient Alpha</b>	<b>Machine Coefficient Alpha</b>
I	0.72	0.73
II	0.88	0.84
III	0.92	0.89
IV	0.87	0.82
V	0.93	0.90
Average	0.86	0.84

### 6.2.6.3 Candidate-Level Correlation

A candidate-level speaking domain score was calculated by aggregating item scores of all speaking items, except for Repeats, for each test taker in the dataset. Since each test was double-rated by human graders, for each item there were two human scores and one machine score. In order to evaluate the performance of the machine scoring method, the Pearson product-moment correlation between the two human scores was computed to establish a human baseline measure. Then the correlation between the machine score and the average human score was computed, on the assumption that the average of the two human scores is a more accurate reflection of a test taker's ability.

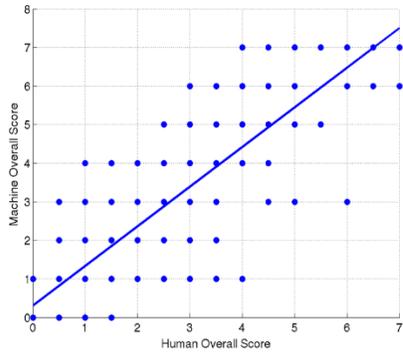
As shown in table 6.5, on average, the machine-human correlation across stages is 0.92, which is very high and comparable to human performance (0.97). The result suggests that machine-generated scores are strongly correlated with human ratings. To help visualize this correlation, scatterplots for human and machine scores for each stage are shown in figure 6.1.

**Table 6.5. Candidate-level Human-Human Correlation and Machine-Human Correlation on Operational Oral Reading/Speaking Items**

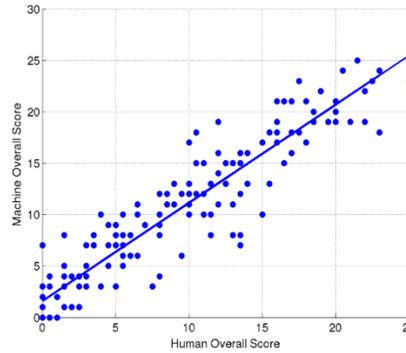
<b>Stage</b>	<b>Human-Human Correlation</b>	<b>Machine-Human Correlation</b>
I	0.92	0.85
II	0.98	0.94
III	0.99	0.90
IV	0.98	0.95
V	0.98	0.95
Average	0.97	0.92

**Figure 6.1. Scatterplots for Candidate-level Human Scores and Machine Scores for Five Stages**

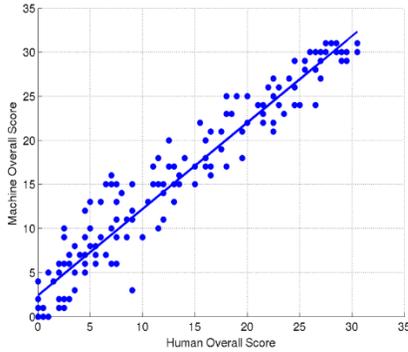
**Stage I**



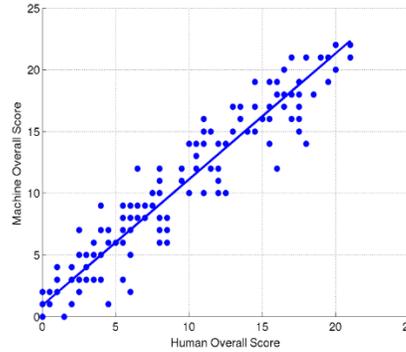
**Stage II**



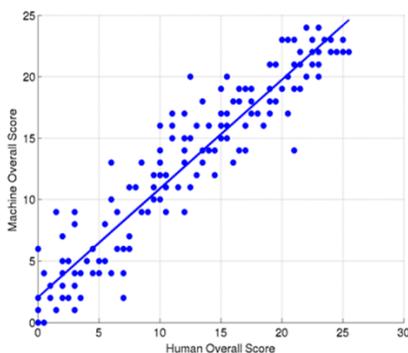
**Stage III**



**Stage IV**



**Stage V**



The scatterplots in general present a good fit between human scores and machine scores. They demonstrate that the automated scoring algorithm can score the AZELLA spoken responses with a similar degree of accuracy to human raters. Although there are still outliers, the data suggest that the performance of the machine scoring method is, in general, comparable to the human rating approach.

An analysis of the outliers was conducted in order to understand the cause of the discrepancy between human scores and machine scores of those tests. The examination revealed that the score discrepancy was largely due to audio issues in students' spoken responses. These audio issues include background noise, line noise, and the extremely soft voice of some students' responses. The presence of these audio issues posed a great challenge for the automated scoring engine to correctly identify the content of those responses, which led to the score discrepancy. However, it is important to note that the outliers are very rare cases, and the majority of the tests have comparable machine and human scores.

#### **6.2.6.4 Summary**

The reported validation analyses indicate that Pearson's automated scoring corresponds closely to human ratings in the AZELLA 2017 Reassessment Speaking test. Machine scoring is as reliable (Cronbach  $\alpha = 0.84$ ) as human rating (Cronbach  $\alpha = 0.86$ ). The average candidate-level machine-to-human correlation across stages is 0.92, which is comparable to human performance ( $r = 0.97$ ). Machine scoring is consistently accurate across all stages of AZELLA (all  $r \geq 0.85$ ). This evidence supports the validity of machine-generated scores for the AZELLA spoken responses. In conjunction with the results of 10 percent human ratings conducted by Pearson Scoring Center, this validation study suggests that automated scoring of 2017 AZELLA Reassessment Speaking section is accurate, reliable, and comparable to professional human grading.

#### **6.2.7 Item Development**

In the 2017 spring reassessment test administration, new items were developed and added to all stages as field-test items. Data on the new field-test items were collected during the 2017 reassessment administration with the goal of adding these items as scoreable items in the next reassessment and placement test administrations.

The field-test items in the 2017 reassessment test administration included 44 Listen & Retell items, 15 Oral Reading Fluency items, three Similarities & Differences items, and one Detailed Response item. Listen & Retell and Oral Reading Fluency were new item types for AZELLA and Similarities & Differences and Detailed Response were existing item types. In Listen & Retell, students listened to a story two times and saw three pictures related to the story. After listening to the story, students were instructed to retell the story in their own words. For Oral Reading Fluency, students had up to 60 seconds to read a passage aloud. Pearson developed item specifications for Listen & Retell which were reviewed by ADE. In addition, 18 field-test items from 2011 were re-field tested in 2017 with the goal of gathering better data and human ratings to build scoring models.

Pearson developed all of the field-test items except for Oral Reading Fluency, which was developed by ADE. Pearson recruited three experienced item writers who were L1 English

speakers with education backgrounds and previous item-writing experience. All drafted field-test items developed by Pearson went through several rounds of internal review as well as three rounds of ADE review. Once finalized, the field-test items were recorded in a professional recording studio. To ensure intelligibility and acceptability of the speakers, all recordings were vetted by Pearson for quality and clarity. The recordings were also reviewed by ADE. Artwork accompanied the Listen & Retell and Similarities & Differences items. Pearson worked with the item writers and ADE to finalize the specifications for the artwork, and subsequently Pearson worked closely with three illustrators to ensure that the artwork was developed according to the specifications. The final artwork was reviewed by ADE before being put into operational use.

#### **6.2.7.1 Data Collection**

The field-test items were included in the 2017 reassessment test forms in order to gather EL responses. Immediately after the reassessment test administration, a separate data collection study was conducted in order to gather native English speaker responses to the field-test items. These native English-speaking students reported English as their home language. The goal of the native English speaker data collection was to gather a sufficient number of responses that would merit high ratings from human raters, ensuring that the entire rating scale is used by the human raters for appropriate training of the automated scoring system.

A total of 14 test forms and 14 speaking booklets were created. Unlike the reassessment test forms that ELs were administered, the native English speaker test forms contained only field-test items. There were two forms for Stage I and three forms each, for Stages II-V. These test forms were delivered over landline telephones to native English speaking students. Test Administrators were provided with *Test Administrator Directions* to review before administering the tests to students. These directions detailed how to prepare the testing room, provided instructions and a script for administering a practice test before beginning the test, and gave instructions on how to begin and administer the actual test.

Pearson Clinical Field Research recruited a total of seven private schools located in Arizona and Colorado to participate in the native speaker data collection. Schools were offered monetary incentives for their participation. Testing took place between April 1 and May 31, 2017.

A total of 93 students took the Stage I forms, 171 students took the Stage II forms, 166 students took the Stage III forms, 109 students took the Stage IV forms, and 110 students took the Stage V forms. There was a roughly equal number of male and female students at each stage.

#### **6.2.7.2 Making Field-Test Items Scorable**

A sample of the English language learner responses and native English speaker responses was rated by trained human judges. A sample of responses to Oral Reading Fluency items was also transcribed by trained human transcribers. The student responses, human ratings, and transcriptions were used to develop the automated scoring models for these items following the same process used to develop the currently scoreable items (as described above in section 6.2).

#### **6.2.7.3 Updating the Acoustic Model and Scoring Models**

In addition to developing new items, as part of the 2017 AZELLA field and operational testing and scoring development work, the acoustic model, a critical component of the automatic speech

recognition system, and the scoring models were both updated. This was done to take advantage of burgeoning new methodologies in the field of artificial intelligence. All operational items currently in the placement and reassessment test forms were updated using a new acoustic model (that applies to all stages). All operational item types — including Detailed Response, Directions, Instructions, Naming, Open Questions, Question about Image, Question about Statement, Short Response, Similarities & Differences, and Word Lists — in the placement and reassessment forms were updated with new scoring models which are item-specific. The exception is the Repeat items which were not updated because the new scoring model technique cannot be applied to the Repeat scoring models. A total of 36 placement items and 41 reassessment items were updated.

Two datasets, one containing reassessment items and one containing placement items, were used to compare the current scoring and the new (updated) scoring. The first set was the 2016 reassessment validation set, which consists of 170 tests per stage. These tests were randomly selected from the master dataset and were not used for retraining purposes. Every student response in these tests was double-rated by human raters at the Pearson Scoring Center. The second set was the placement set, which also consists of 170 tests randomly selected from each stage and double-rated by human raters.

After retraining all of the items, comparisons of scores between the current scoring and the new scoring were conducted. For each reassessment item, human-based scores and machine scores were compared for exact agreement and adjacency agreement. For the placement items, the correlation between human-based scores and machine scores was calculated under the current scoring and under the new scoring. Table 6.6 below shows the number of items per stage in which the human-machine exact agreement increased or decreased for reassessment items. Table 6.6 also displays the number of items per stage in which the human-machine correlation increased or decreased for placement items.

**Table 6.6. Number of Items per Stage in Which Human-Machine Exact Agreement Increased or Decreased for Reassessment Items, and the Number of Items per Stage in Which the Human-Machine Correlation Increased or Decreased for Placement Items**

Stage	Reassessment			Placement		
	# of Items – H-M Exact Agreement Increased	# of Items – Agreement	H-M Exact Decreased	# of Items – H-M Correlation Increased	# of Items – Correlation	H-M Decreased
I	<b>6</b>		<b>1</b>	<i>NA</i>		<i>NA</i>
II	<b>3</b>		<b>7</b>	<b>7</b>		<b>3</b>
III	<b>5</b>		<b>4</b>	<b>10</b>		<b>0</b>
IV	<b>7</b>		<b>1</b>	<b>8</b>		<b>1</b>
V	<b>7</b>		<b>0</b>	<b>6</b>		<b>1</b>
<b>Total</b>	<b>28</b>		<b>13</b>	<b>31</b>		<b>5</b>

Table 6.7 below shows the average human-human exact agreement, average human-machine exact agreement under the current scoring, and average human-machine exact agreement under the new scoring for the reassessment items. It also shows the average human-human exact agreement and average human-machine exact agreement under the new scoring for the placement items.

**Table 6.7. Average Human-Human Exact Agreement, Average Human-Machine Exact Agreement Under the Current Scoring, and Average Human-Machine Exact Agreement Under the New Scoring for the Reassessment Items; And Average Human-Human Exact Agreement and Average Human-Machine Exact Agreement Under the New Scoring for the Placement Items**

Stage	Reassessment			Placement	
	Average H-H Exact Agreement	Average H-M Exact Agreement (Current)	Average H-M Exact Agreement (New)	Average H-H Exact Agreement	Average H-M Exact Agreement (New)
I	85%	81%	85%	NA	NA
II	82%	69%	65%	76%	64%
III	78%	68%	70%	81%	70%
IV	80%	67%	72%	78%	70%
V	69%	55%	62%	75%	64%
Total	79%	68%	70%	78%	67%

Overall, after retraining, the majority of the items achieved higher human-machine exact agreement and human-machine correlation. For the reassessment items, 68 percent of the items ( $n = 28$ ) had higher human-machine exact agreement, and 32 percent ( $n = 13$ ) had lower human-machine exact agreement. For the placement items, 86 percent of the items ( $n = 31$ ) had higher human-machine correlation, and 14 percent ( $n = 5$ ) had lower human-machine correlation. One possible reason for the decrease in values for some items is that the new acoustic model (applied to all stages) used a different distribution of features than the current model, and a different set of features may be more appropriate for some items than others. However, overall, the new acoustic model is a better fit for the majority of these AZELLA items than the previous model .

For the reassessment items, the human-machine exact agreement increased from 68 percent to 70 percent. This is closer to the human-human exact agreement of 79 percent. The placement items followed a similar pattern, with a human-machine exact agreement of 67 percent and human-human exact agreement of 78 percent. Human-machine exact agreement could not be calculated using the current scoring since the scoring was done on a continuous scale and the human rating was done on a discrete scale. The placement items had slightly lower human-machine exact agreement compared to the reassessment items. One possible reason for this is that, overall, lower human-human agreement was observed with the placement items. Another possible reason is that fewer human grades had been collected on placement items over the past few years prior to this year’s development project, so there were less data available for building the new models. However, overall, the human-machine exact agreement is within expectation, which is usually about 10 percent less than the human-human exact agreement.

Overall, the retraining of the operational reassessment and placement items yielded better item performance which is closer to the human ratings. The majority of the items have higher human-machine exact agreement or human-machine correlation than the previous model.

## **Chapter 7. CLASSICAL ITEM ANALYSIS**

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This chapter presents classical statistics for the data used for calibration, equating, and scaling for the Spring 2017 AZELLA Reassessment. Please refer to the 2014 Technical Report (Arizona Department of Education, 2014b) for the classical statistics for the AZELLA Placement tests for Stages II through V. Please refer to the 2014 technical report for the classical statistics for the Kindergarten Placement Test. Addressed in this part of the technical report are the following 1999 AERA/APA/NCME standards (AERA, APA, NCME 1999): 1.5, 1.13, 2.4, 2.8, 3.18, 6.5, and 7.1. The 2014 AERA/APA/NCME standards (AERA, APA, NCME 2014) addressed by this chapter are: 1.8, 1.10, 2.5, 2.19, 3.6, 4.14, and 7.4.

### **7.1 Data**

The test window for the Spring 2017 AZELLA Reassessment was open from February 6, 2017 to March 24, 2017. The classical item analysis for the Spring 2017 AZELLA Reassessment was conducted based on the calibration samples, which were EL students as described in Chapter 8. Only EL students participated in the Spring 2017 AZELLA Reassessment. Note that non-EL students participated in the field-test administrations in fall 2011 for Stages II through V and in spring 2012 for Stage I. This was done to compare the non-EL students' performance on items to that of the EL students. Non-EL students from non-public schools participated in the Speaking field test in spring 2017 as described in section 6.2.7.1. Demographic information concerning the students who were in the calibration sample for the Spring 2017 AZELLA Reassessment (e.g., EL status, gender, Hispanic, and ethnicity) is summarized in table 7.1.

**Table 7.1. Frequency of Students by Subgroups for the Spring Reassessments**

		Stage I	Stage II	Stage III	Stage IV	Stage V	
ALL		12566	18140	22847	11899	7668	
EL		12566	18140	22847	11899	7668	
Gender	Male	6604	9716	12535	6891	4308	
	Female	5946	8395	10247	4988	3351	
Ethnicity	Hispanic	10765	15681	19727	9958	5760	
	Non-Hispanic	1801	2459	3120	1941	1908	
Race	Asian	461	466	512	288	316	
	American Indian or Alaskan Native	231	445	764	596	299	
	Black or African American	246	339	499	352	556	
	Native Hawaiian or Other Pacific Islander	46	53	52	40	28	
	Multiple Indication	1332	2404	2756	1287	676	
	White	9631	13779	17455	8909	5498	
	Special Ed.	Special Ed.	839	1815	2827	1372	417
		Non-Special Ed.	11727	16325	20020	10527	7251
Free/Reduced Lunch	FRL	8568	13052	16831	8474	4657	
	Non-FRL	3787	4811	5644	3209	2897	

## 7.2 Descriptive Statistics by Test

Table 7.2 presents descriptive statistics on Total Combined raw scores for the Spring 2017 AZELLA Reassessments by stage and also by grade. The table shows the number of students included in the classical analysis (N), the maximum obtained raw score (Max RS), the mean raw score (Mean RS), the standard deviation of raw score (RS SD), the average *p*-value (P-value M), the average item-to-total correlation (Mean *rpb*). The item-to-total correlation is computed as a point biserial correlation for dichotomous items and as a Pearson product-moment correlation for polytomous items. The point biserial correlation reported is the correlation of the item and the Total Combined raw scores. The Pearson product-moment correlation reported is the correlation of the polytomous item and the Total Combined raw scores.

**Table 7.2. Classical Test Analysis Statistics for the Spring AZELLA Reassessments**

Stage	Grade	N	Max RS Obtained	Mean RS	SD RS	Mean P-value	Mean rpb
I	Kindergarten	12566	64	39.46	11.44	0.64	0.42
II		18140	148	86.22	25.54	0.58	0.39
	1	9122	148	75.41	21.38	0.50	0.33
	2	9018	146	97.16	24.73	0.65	0.40
III		22847	160	95.00	26.31	0.56	0.38
	3	8225	151	83.81	22.25	0.48	0.32
	4	8221	158	98.50	25.84	0.58	0.38
	5	6401	160	104.88	26.52	0.63	0.39
IV		11899	163	96.34	29.36	0.56	0.41
	6	4310	156	91.15	26.83	0.52	0.37
	7	4197	163	97.71	29.88	0.57	0.41
	8	3392	162	101.23	30.75	0.59	0.43
V		7668	161	91.91	27.47	0.54	0.39
	9	2901	158	85.27	28.82	0.50	0.39
	10	2298	161	93.34	26.47	0.54	0.38
	11	1504	155	98.03	24.98	0.57	0.37
	12	965	161	98.96	24.80	0.58	0.36

### 7.3 Classical Item Analysis

Classical item analysis was conducted for Stage I through V reassessments. Item statistics for the tests are presented in table A.1 through table A.20 in appendix A. Note that operational items on the Stage I through V reassessments are reported in a sequence. The number of students (N-Count), P-value, point-biserial correlation between an item and Total Combined raw score (Pbis Total), and point-biserial correlation between an item and its respective domain (Pbis Domain) for EL students by domain are in the tables. A summary of classical item analysis by domain for each stage is in table 7.3.

**Table 7.3. Classical Item Analysis Summary for the Spring AZELLA Reassessments**

Stage	Domain	Number of Items	Number of Points	Mean P-value	Mean Pbis Total	Mean Pbis Domain
I	Listening	14	14	0.72	0.39	0.48
	Speaking	8	14	0.67	0.37	0.54
	Reading	18	18	0.66	0.40	0.46
	Writing	9	18	0.47	0.54	0.64
II	Listening	14	28	0.60	0.34	0.45
	Speaking	8	32	0.68	0.45	0.67
	Reading	23	50	0.54	0.39	0.43
	Writing	15	38	0.55	0.42	0.48
III	Listening	14	28	0.54	0.31	0.42
	Speaking	8	32	0.82	0.49	0.70
	Reading	26	52	0.48	0.35	0.40
	Writing	18	52	0.57	0.43	0.49
IV	Listening	14	28	0.56	0.34	0.44
	Speaking	8	32	0.73	0.55	0.75
	Reading	28	56	0.53	0.40	0.44
	Writing	20	56	0.53	0.41	0.46
V	Listening	14	28	0.54	0.36	0.45
	Speaking	8	32	0.64	0.55	0.76
	Reading	28	56	0.54	0.36	0.40
	Writing	20	56	0.49	0.38	0.43

In addition, a distractor analysis was conducted for multiple-choice items for the Stages I through V tests. The response distribution in percentage for an item across all possible choices (e.g., a correct option and distractors), as well as the percentage of students who omitted the items, was calculated. Also, the point biserial correlation associated with each option was calculated. Typically, a negative point biserial correlation is sought for incorrect options (i.e., distractors) because less English proficient students should be more likely to choose an incorrect option. Note that multiple-choice items in Stages I and II only have three options where multiple-choice items in Stages III, IV, and V have four. The item-level statistics for the distractor analysis is presented by stage and domain in table A.21 through table A.34 in Appendix A.

Table 7.4 presents descriptive statistics in point biserial correlation associate with a correct option and incorrect options. As expected, a point biserial correlation for a correct option was around 0.3 or higher while the point biserial correlation for an incorrect option was negative or very close to 0. It shows that higher English proficient students tended to choose a correct option, and lower English proficient students tended to choose an incorrect option. In other words, distractors worked appropriately.

**Table 7.4. Distractor Analysis Summary for the Spring AZELLA Reassessments**

Stage	Domain	Number of Items	Point-biserial Correlation for Correct Option					Point-biserial Correlation for Incorrect Options				
			Min	P25	P50	P75	Max	Min	P25	P50	P75	Max
I	Listening	14	0.37	0.42	0.48	0.54	0.58	-0.45	-0.34	-0.30	-0.24	-0.18
	Reading	18	0.34	0.40	0.47	0.52	0.57	-0.40	-0.33	-0.28	-0.21	-0.14
II	Listening	14	0.38	0.39	0.46	0.49	0.51	-0.39	-0.32	-0.27	-0.22	-0.14
	Reading	20	0.30	0.36	0.41	0.51	0.56	-0.42	-0.30	-0.27	-0.19	0.03
	Writing	13	0.34	0.39	0.41	0.47	0.58	-0.40	-0.31	-0.26	-0.21	-0.11
III	Listening	14	0.29	0.37	0.41	0.46	0.50	-0.30	-0.23	-0.19	-0.16	-0.05
	Reading	23	0.27	0.36	0.38	0.47	0.51	-0.32	-0.23	-0.18	-0.13	-0.02
	Writing	16	0.34	0.38	0.48	0.52	0.56	-0.36	-0.27	-0.23	-0.19	-0.05
IV	Listening	14	0.35	0.41	0.44	0.48	0.51	-0.36	-0.26	-0.22	-0.19	0.00
	Reading	26	0.31	0.39	0.45	0.50	0.56	-0.34	-0.25	-0.21	-0.17	-0.07
	Writing	18	0.31	0.36	0.44	0.51	0.57	-0.32	-0.26	-0.22	-0.15	0.02
V	Listening	14	0.31	0.43	0.44	0.46	0.59	-0.36	-0.25	-0.21	-0.17	0.03
	Reading	28	0.31	0.37	0.40	0.44	0.54	-0.33	-0.23	-0.19	-0.15	-0.03
	Writing	18	0.29	0.34	0.35	0.46	0.54	-0.40	-0.25	-0.18	-0.12	0.09

NOTE: Min=Minimum, P25=25<sup>th</sup> Percentile, P50=50<sup>th</sup> Percentile (Median), P75=75<sup>th</sup> Percentile, Max=Maximum

## Chapter 8. CALIBRATION, EQUATING, AND SCALING

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This chapter of the technical report describes calibration, equating, and scaling procedures that took place for the Spring 2017 AZELLA Reassessment and summarizes the results. All stages were calibrated and scaled with calibration samples that typically consisted of the entire EL population. Note that there was no calibration executed for the AZELLA Placement Tests as they are pre-equated tests. Please refer to the 2014 Technical Report (Arizona Department of Education 2014b) for the calibration results for the AZELLA Placement Tests. This chapter of the technical report addresses the following 1999 AERA/APA/NCME standards (AERA, APA, NCME 1999): 1.13, 4.1, 4.2, 4.3, 6.4, 6.5, and 13.6. The 2014 AERA/APA/NCME standards (AERA, APA, NCME 2014) addressed by this chapter are: 1.10, 5.1, 5.2, 5.3, 7.2, 7.4, and 12.9.

### 8.1 Calibration Sample

In order to ensure valid calibration results, several data-cleaning steps occurred upon receipt of raw data from the scanning and scoring processes. These steps allowed for calibration to be conducted on valid student responses at the targeted stage level.

The cleaning process removed the following records from the calibration datasets for each stage level:

- Records with invalid tests noted by a special invalidation code obtained from ADE and marked on the answer document
- Records with non-valid attempts noted by less than one response in any of the test sessions
- Records which indicated the student took a test other than their stage level
- Duplicate records (score sheets were double scanned or students indicated as taking the test more than once)
- Records which indicated the student was not classified as EL

### 8.2 Calibration Methods

Item response theory (IRT) models were used in the item calibration for the AZELLA tests. All tests were calibrated separately by stage. All calibration activities were replicated with three psychometricians (two from Pearson and one from ADE) as a quality control measure.

#### 8.2.1 Calibration Models and Form Equating

The AZELLA tests are composed of one-point and multiple-point items. Items on operational test forms were calibrated by stage. The Rasch model (Rasch, 1960) was used for one-point items. It estimates item difficulty and student ability on the same scale. Under the Rasch model, the probability that student  $j$  with ability  $\theta$  answers item  $i$  with difficulty of  $b$  correctly is

$$P_i(\theta_j) = \frac{\exp(\theta_j - b_i)}{1 + \exp(\theta_j - b_i)}.$$

For multiple-point items, the partial credit model (Masters 1982) was used for calibration. The partial credit model is an extension of the Rasch model; it is for items for which students may get

partial credit. Thus, the partial credit model reduces to the Rasch model when items have only two response categories (i.e., 0 or 1). According to the partial credit model, the probability that student  $j$  scores  $x$  on item  $i$  which has a maximum possible point of  $m$  ( $k = m+1$  possible response categories) is expressed as

$$P_{ix}(\theta_j) = \frac{\exp \sum_{l=0}^x (\theta_j - D_{il})}{\sum_{k=0}^{m_i} [\exp \sum_{l=0}^k (\theta_j - D_{il})]},$$

where  $x = 0, 1, \dots, m_i$ ,  $D_{il}$  is a step difficulty for score  $l$  and by definition,

$$\sum_{l=0}^0 (\theta_j - D_{il}) = 0.$$

The step difficulty,  $D_{il}$  can be decomposed such that

$$D_{il} = b_i + h_{il},$$

where  $b_i$  is an overall difficulty for item  $i$  and  $h_{il}$  is a threshold for score  $l$  (Embretson & Reise 2000; Linacre 2015). This parameterization allows  $b_i$  in the partial credit model to be comparable to  $b_i$  in the Rasch model.

## 8.2.2 Calibration Software

Parameter estimation for items on the Stages I through V tests was implemented using Winsteps 3.90.0 (Linacre 2015). Winsteps uses joint maximum likelihood estimation (JMLE) as described by Wright and Masters (1982).

## 8.3 Calibration Results

IRT statistics at item level resulting from calibration of the Spring 2017 AZELLA Reassessment are presented in table B.1 through table B.20 in appendix B. All items for all AZELLA tests converged during calibration using typical procedures for Winsteps software. Standard error of estimates for the Rasch difficulty measures indicated that the parameters were well estimated. Model fit was monitored using weighted mean-square (MNSQ) and unweighted MNSQ statistics, which indicate the degree of accuracy and predictability with which the data fits the model (Linacre 2015). In Winsteps and Rasch literature, weighted mean-square is also referred to as infit MNSQ and unweighted mean square is referred to as outfit MNSQ. The infit MNSQ is sensitive to unexpected responses at or near the item's calibrated level whereas outfit MNSQ is sensitive to unexpected responses away from the item's calibrated level. AZELLA items were flagged for misfit using a set of conservative criteria. For infit MNSQ, these values were less than 0.6 or greater than 1.4, and for outfit MNSQ, items flagged had a value greater than 1.4 (Wright & Linacre 1994). The use of these criteria allowed more items to be inspected for model misfit than with the criteria currently recommended (Linacre 2014). The summary of IRT statistics is presented in table 8.1.

**Table 8.1. IRT Statistics Summary for the Spring AZELLA Reassessments**

Stage	Domain	Number of Items	Mean Vertical Rasch	Number of Flagged Items by Infit	Number of Flagged Items by Outfit
I	Listening	14	-2.79	0	0
	Speaking	8	-2.44	0	3
	Reading	18	-2.47	0	0
	Writing	9	-1.66	0	0
II	Listening	14	-1.20	0	0
	Speaking	8	-1.43	4	5
	Reading	23	-0.89	0	0
	Writing	15	-0.89	0	0
III	Listening	14	0.04	0	0
	Speaking	8	-1.00	0	7
	Reading	26	0.31	0	0
	Writing	18	-0.09	0	0
IV	Listening	14	0.35	0	0
	Speaking	8	-0.20	0	5
	Reading	28	0.49	0	1
	Writing	20	0.56	0	0
V	Listening	14	0.66	0	0
	Speaking	8	0.88	0	2
	Reading	28	0.68	0	0
	Writing	20	0.98	0	0

NOTE: Rasch difficulty is on a vertical scale. The average Rasch difficulties for Stage I through V are -2.5234, -0.8670, 0.0000, 0.5263, and 0.7408, respectively.

#### 8.4 Equating

The Spring 2017 AZELLA Reassessment Tests were equated and placed on the operational AZELLA scale using a non-equivalent groups anchor item (NEAT) design. A set of anchor items was selected from the Spring 2016 operational items. The anchor items were selected such that they contributed approximately 30 percent of the total score points and their content representation was as similar as possible to the blueprint, which is presented in table 3.1. The position of all anchor items stayed within two positions from where they were in the previous year.

A fixed anchor parameter equating was implemented within Winsteps in order to link the Spring 2017 tests to the operational reporting scale. This was implemented by constraining the Spring 2016 parameter estimates for the anchor items to equal the final parameter estimates obtained in the original AZELLA calibration analyses. The displacement statistic, which estimates the difference between the fixed parameter and the estimate had the item parameter not been constrained, was evaluated for each anchor item. Items with a displacement statistic greater than 0.3 or less than -0.3 were reiteratively removed from the anchor set. The criterion of 0.3 has been used to flag displaced anchor items under a common item non-equivalent group equating design for many state programs (Miller, Rotou, Twing 2004). Therefore, if more than one anchor item

was flagged, the item with the largest magnitude of displacement value was dropped from the anchor set. The displacement values of the remaining anchor items were then re-estimated by implementing the fixed anchor parameter equating with the remaining anchor items. This process was repeated until all of the anchor items had displacement values of a magnitude smaller than 0.3. Table 8.2 shows the number of items and points by domain for an initial anchor set and the number of items dropped from the initial anchor set for the Spring 2017 Reassessment. Only one item from Stage I and III was dropped from the initial anchor set for Spring 2017.

**Table 8.2. Summary of Anchor Items for the Spring AZELLA Reassessments**

Initial Anchor Set					
Stage	Domain	Number of Items	Number of Points	Number of Items/Points Dropped from Anchor	
I	Listening	5	5	0/0	
	Speaking	2	5	0/0	
	Reading	6	6	0/0	
	Writing	3	7	1/2	
II	Listening	5	10	0/0	
	Speaking	1	4	0/0	
	Reading	8	16	0/0	
	Writing	5	14	0/0	
III	Listening	5	10	0/0	
	Speaking	1	4	0/0	
	Reading	10	20	1/2	
	Writing	6	20	0/0	
IV	Listening	5	10	0/0	
	Speaking	2	8	0/0	
	Reading	9	18	0/0	
	Writing	9	18	0/0	
V	Listening	5	10	0/0	
	Speaking	2	8	0/0	
	Reading	9	18	0/0	
	Writing	7	22	0/0	

## 8.5 Scaling Methods

In 2013, a scale of measurement was determined for the AZELLA Stage I through V tests. These tests were placed on a vertical scale for Total Combined score with the reporting scale ranging from 2000 to 3000. For each of the domain and subdomain strands, a scale score system was created that is not vertically linked across stages. The reporting scale for each of the domains (Listening, Speaking, Reading, and Writing) and subdomains (Language, Oral, Comprehension, and Literacy) was established to range from 100 to 400. The scale scores for Basic/Intermediate and Proficient cuts were fixed at 230 and 250, respectively for each stage/grade.

In 2012, a scale of measurement was determined for the AZELLA Kindergarten Placement Test. The Kindergarten Placement Test scale, which ranges from 100 to 300, was placed on a separate scale from the AZELLA Stages I through V tests. Details about the creation of the scale scores can be found in the field-test technical report (Arizona Department of Education 2013c).

## 8.6 Kindergarten Placement Test Field-Test Analysis

As described in 4.7.2, the field-test forms were administered during the first four cycles of Placement 2016 and 2017 administration. Frequency of students by subgroups who took either an operational form or a field-test form of Kindergarten Placement Test during the period is presented in table 8.3.

**Table 8.3. Frequency of Students by Subgroups for Kindergarten Placement Test**

		Operational Form	Field-Test Forms	
ALL		13359	3397	
Gender	Male	6760	1724	
	Female	6599	1673	
Ethnicity	Hispanic	10879	3182	
	Non-Hispanic	2480	215	
Race <sup>†</sup>	Asian	1064	87	
	American Indian or Alaskan Native	247	2	
	Black or African American	351	71	
	Native Hawaiian or Other Pacific Islander	100	6	
	Multiple Indication	62	6	
	White	785	49	
	Special Ed.	Special Ed.	1291	285
		Non-Special Ed.	11856	3053
Free/Reduced Lunch	FRL	8384	2609	
	Non-FRL	4899	786	

<sup>†</sup>Arizona Department of Education database indicated that 10750 students who took an operational form had missing information on race, and 3176 students who took a field-test form had missing information on race.

### 8.6.1 Field-Test Equating

Evidence has come to light that some of the operational Kindergarten Placement Test item parameter estimates have drifted since they were first established in Spring 2012 (Arizona Department of Education 2016). To ensure that the item parameters for the newly field-tested items were as reliable as possible, the operational item parameter estimates were post-equated. Any drifted item parameter estimates were refreshed using data from all students taking the test during the same period as the field-test administration prior to the parameter estimation of the field-test items. The following procedure was performed.

1. All operational items were calibrated with a fixed anchor method. All operational item parameter estimates were fixed to their previous value stored in the item bank for the initial run.
2. If an item displayed a displacement value greater than 0.3 (or less than -0.3), this item was freely estimated in following runs.
3. Items were “freed” iteratively one at a time in order of greatest displacement value until no item displayed a value greater than 0.3 or less than -0.3.

This post-equating procedure was run by including all students who took an operational item only form or one of field-test forms. Thirteen out of 38 operational items on the current Kindergarten Placement Test had a displacement value greater than 0.3 or less than -0.3 so that their item parameter estimates were refreshed.

Next, all field-test items across six field-test forms were simultaneously calibrated with a fixed anchor method. For this fixed anchor run, all the operational items with refreshed item parameter estimates from the previous step were designated as anchor. Since the operational form of this test was the same as that used in previous years, the scale for the 2016-2017 did not change based on these analyses. However the new item parameters did inform the development of the new KPT form which was operationalized in July 2017. These parameters will be reported next year along with student performance, CTT analyses, and DIF analyses.

## Chapter 9. TEST RESULTS

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Chapter 9 of this technical report contains information about the results of the administration of the Spring 2017 AZELLA Reassessment. The first section provides information on Total Combined score as well as the four domains (Listening, Speaking, Reading, and Writing) from the AZELLA Stages I through V assessments. The second section provides information on Overall and subdomains (Language, Oral, Comprehension, Literacy). Please refer to the 2014 Technical Report (Arizona Department of Education 2014b) for the test results for the AZELLA Placement Tests when they were scaled. Test results for the AZELLA Placement Tests during the School Year of 2016-2017 are presented in appendix D. The 1999 AERA/APA/NCME standards (AERA, APA, NCME 1999) addressed in this part of the technical report include: 1.5, 4.3, 6.5, 7.1, 7.10, 13.15, and 13.19. The 2014 AERA/APA/NCME standards (AERA, APA, NCME 2014) addressed by this chapter are: 1.8, 2.11, 2.15, 3.1, 3.3, 3.6, 3.15, 5.3, 7.4, 12.17, and 12.18.

Results presented below are based on population data contained within the final electronic data files. The results presented in this part of the technical report may differ slightly from final testing results presented on the Arizona Department of Education website due to slight differences in the application of exclusion rules. Official final results typically use more detailed school-level information than is used to conduct research analyses. The results in the following tables are presented as evidence of reliability and validity of the AZELLA assessments and should not be used for state accountability purposes.

Test results for all students by grade for the Spring 2017 AZELLA Reassessments are shown in table 9.1. For each grade, the mean and standard deviation of the scale scores on Total Combined score as well as the percentages of students in Overall proficiency levels are presented for the state as a whole. Overall proficiency levels for the Stages I through V assessments are determined based on the proficiency levels on Total Combined, Reading, and Writing scores. Students were Overall Proficient only if they were Proficient on the Total Combined score plus both the Reading and Writing domains. The test results for each grade by subgroups are presented in appendix C.

**Table 9.1. AZELLA Reassessment Test Results on Overall for All Students**

Stage	Grade	N	Total Combined Scale Score		% at Overall Proficiency Levels			
			Mean	SD	PE/E	B	I	P
I	Kindergarten	12570	2322.41	65.31	8	20	40	32
II	1	9132	2362.13	43.42	3	28	51	18
	2	9034	2407.84	54.83	10	23	39	28
III	3	8243	2417.96	42.21	11	37	45	7
	4	8245	2448.23	53.57	14	25	52	10
	5	6418	2462.52	56.81	14	19	56	11
IV	6	4312	2457.77	50.39	15	23	57	6
	7	4199	2471.19	58.62	14	17	61	9
	8	3392	2478.79	60.68	13	15	62	10
V	9	2902	2471.13	57.16	24	24	47	6
	10	2298	2486.92	53.84	13	22	57	8
	11	1503	2496.07	51.33	10	18	63	9
	12	965	2498.48	52.51	8	21	60	11

NOTE: PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

In addition to the overall test results presented above, the percentages of students in each proficiency level for domains and subdomains for all students are also presented by domain/subdomain in table 9.2. Appendix C shows the percentages of students in each proficiency level for each grade and domain/subdomain for subgroups.

**Table 9.2. AZELLA Reassessment Test Results by Domain and Subdomain for All Students**

Stage	Grade	Domain/ Subdomain	N	% at Proficiency Levels			
				PE/E	B or PE/E/B	I	P
I	Kindergarten	Listening	12570		29	20	51
		Speaking	12570		23	32	44
		Reading	12570		28	25	47
		Writing	12570		31	22	47
		Language	12570		26	29	45
		Oral	12570		26	25	49
		Comprehension	12570		30	25	45
		Literacy	12570		30	26	44
		Total	12570		8	20	26
II	1	Listening	9132		37	26	36
		Speaking	9132		21	37	42
		Reading	9132		33	42	25
		Writing	9132		38	30	32
		Language	9132		29	40	31
		Oral	9132		24	41	35
		Comprehension	9132		36	36	28
		Literacy	9132		38	35	28
		Total	9132		3	28	42
	2	Listening	9034		39	23	38
		Speaking	9034		34	34	32

Stage	Grade	Domain/ Subdomain	N	% at Proficiency Levels				
				PE/E	B or PE/E/B	I	P	
III	3	Reading	9034		32	27	41	
		Writing	9034		34	25	42	
		Language	9034		31	32	36	
		Oral	9034		35	34	32	
		Comprehension	9034		35	25	41	
		Literacy	9034		34	24	42	
		Total	9034	10	23	31	36	
	4	Listening	8243		50	26	24	
		Speaking	8243		42	34	24	
		Reading	8243		48	41	11	
		Writing	8243		50	23	27	
		Language	8243		45	43	11	
		Oral	8243		42	39	19	
		Comprehension	8243		52	34	14	
		Literacy	8243		51	29	21	
		Total	8243	11	37	43	9	
		5	Listening	8245		43	26	31
			Speaking	8245		39	30	31
			Reading	8245		39	44	16
			Writing	8245		42	33	25
			Language	8245		38	42	20
			Oral	8245		37	32	31
			Comprehension	8245		38	39	24
Literacy	8245			38	42	19		
Total	8245	14	25	44	17			
IV	6	Listening	6418		35	27	38	
		Speaking	6418		42	21	37	
		Reading	6418		35	41	24	
		Writing	6418		32	42	26	
		Language	6418		32	50	18	
		Oral	6418		37	25	38	
		Comprehension	6418		32	35	33	
		Literacy	6418		34	42	25	
	Total	6418	14	19	52	14		
	7	Listening	4312		38	26	36	
		Speaking	4312		29	19	52	
		Reading	4312		45	36	19	
		Writing	4312		38	50	12	
		Language	4312		33	57	11	
		Oral	4312		32	28	40	
		Comprehension	4312		39	38	23	
		Literacy	4312		42	40	18	
Total		4312	15	23	55	8		
8	Listening	4199		32	22	47		
	Speaking	4199		29	17	54		
	Reading	4199		36	38	26		
	Writing	4199		31	54	15		
	Language	4199		29	56	16		
	Oral	4199		28	23	49		
	Comprehension	4199		31	36	33		
	Literacy	4199		33	46	20		
Total	4199	14	17	56	13			
	8	Listening	3392		28	21	51	

Stage	Grade	Domain/ Subdomain	N	% at Proficiency Levels			
				PE/E	B or PE/E/B	I	P
		Speaking	3392		32	18	50
		Reading	3392		29	50	21
		Writing	3392		27	52	20
		Language	3392		27	57	16
		Oral	3392		29	20	50
		Comprehension	3392		26	38	36
		Literacy	3392		25	55	20
		Total	3392	13	15	56	16
V	9	Listening	2902		44	22	33
		Speaking	2902		43	14	44
		Reading	2902		50	37	13
		Writing	2902		45	44	11
		Language	2902		45	44	11
		Oral	2902		44	25	31
		Comprehension	2902		50	31	19
		Literacy	2902		50	39	11
		Total	2902	24	24	43	9
	10	Listening	2298		36	23	41
		Speaking	2298		33	17	51
		Reading	2298		39	44	17
		Writing	2298		34	51	15
		Language	2298		34	52	13
		Oral	2298		34	27	39
		Comprehension	2298		39	36	25
		Literacy	2298		37	48	15
		Total	2298	13	22	53	12
	11	Listening	1503		31	20	49
		Speaking	1503		28	17	55
		Reading	1503		32	46	22
		Writing	1503		28	55	17
		Language	1503		29	55	16
		Oral	1503		29	26	45
		Comprehension	1503		31	39	30
		Literacy	1503		29	52	19
		Total	1503	10	18	58	15
	12	Listening	965		28	23	49
		Speaking	965		30	16	54
		Reading	965		32	44	24
		Writing	965		30	51	19
		Language	965		29	54	17
		Oral	965		28	29	43
		Comprehension	965		32	35	33
		Literacy	965		32	48	21
		Total	965	8	21	55	16

NOTE: PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient. For Total, proficiency levels are Pre-Emergent/Emergent, Basic, Intermediate, and Proficient. For other domains and subdomains, the proficient levels are Pre-Emergent/Emergent/Basic, Intermediate, and Proficient.

In addition to the proficiency-level distributions for Total Combined scores, domain, and subdomain scores presented above, raw score and scale score distributions for Total Combined score are presented the Stages I through V assessments by grade in appendix C. For the exact proficiency level cuts for the Stages I through V assessments, please refer to table 11.1. Table 9.3 shows the frequency distribution statistics for Total Combined scores at Proficiency level cuts.

**Table 9.3. AZELLA Reassessment Form Frequency Distribution at Proficiency-Level Cuts**

Stage	Grade	Proficiency Cut	Raw Score	Scale Score	Freq	%	Cum. Freq	Cum. %
I	Kindergarten	Basic	23	2241	182	1.45	1215	9.67
		Intermediate	33	2285	331	2.63	3862	30.72
		Proficient	42	2327	392	3.12	7132	56.74
II	1	Basic	41	2295	42	0.46	359	3.93
		Intermediate	64	2340	194	2.12	3041	33.30
		Proficient	88	2385	138	1.51	6799	74.45
	2	Basic	63	2338	56	0.62	936	10.36
		Intermediate	87	2383	119	1.32	3085	34.15
		Proficient	110	2429	121	1.34	5894	65.24
III	3	Basic	57	2371	78	0.95	963	11.68
		Intermediate	83	2414	148	1.80	4117	49.95
		Proficient	114	2475	62	0.75	7544	91.52
	4	Basic	69	2391	61	0.74	1219	14.78
		Intermediate	94	2434	114	1.38	3298	40.00
		Proficient	124	2500	125	1.52	6951	84.31
	5	Basic	76	2402	40	0.62	969	15.10
		Intermediate	99	2443	64	1.00	2210	34.43
		Proficient	132	2523	110	1.71	5618	87.54
IV	6	Basic	61	2404	39	0.90	672	15.58
		Intermediate	85	2444	59	1.37	1668	38.68
		Proficient	129	2532	27	0.63	4006	92.90
	7	Basic	61	2404	26	0.62	601	14.31
		Intermediate	85	2444	29	0.69	1316	31.33
		Proficient	131	2537	30	0.71	3674	87.48
	8	Basic	61	2404	21	0.62	462	13.62
		Intermediate	85	2444	27	0.80	965	28.45
		Proficient	132	2540	44	1.30	2889	85.17
V	9	Basic	62	2427	18	0.62	701	24.16
		Intermediate	85	2468	34	1.17	1412	48.66
		Proficient	125	2551	16	0.55	2649	91.28
	10	Basic	62	2427	20	0.87	324	14.10
		Intermediate	85	2468	22	0.96	839	36.51
		Proficient	125	2551	18	0.78	2044	88.95
	11	Basic	62	2427	5	0.33	149	9.91
		Intermediate	85	2468	19	1.26	428	28.48
		Proficient	125	2551	22	1.46	1300	86.49
	12	Basic	62	2427	7	0.73	86	8.91
		Intermediate	85	2468	8	0.83	292	30.26
		Proficient	125	2551	12	1.24	826	85.60

## Chapter 10. VALIDITY EVIDENCE

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Chapter 10 of the technical report provides evidence supporting the reliability and validity of scores on the Spring 2017 AZELLA Reassessment. All data presented in this section for the AZELLA Stages I through V assessments in the spring 2017 administration were computed using the calibration sample. The following 1999 AERA/APA/NCME standards (AERA, APA, NCME 1999) are addressed by this section of the technical report: 1.5, 1.7, 2.1, 2.4, 2.10, 2.13, 3.16, 4.15, 6.5, 7.1, 7.3, and 7.10. The 2014 AERA/APA/NCME standards (AERA, APA, NCME 2014) addressed by this chapter are: 1.8, 1.9, 1.21, 2.3, 2.7, 2.8, 2.11, 2.15, 2.19, 3.1, 3.3, 3.6, 3.15, and 7.4.

### 10.1 Reliability

AERA/APA/NCME *Standards for Educational and Psychological Testing* (AERA, APA, NCME 1999) refer to reliability as the “consistency of [a measure] when the testing procedure is repeated on a population of individuals or groups.” The 2014 edition of AERA/APA/NCME *Standards for Educational and Psychological Testing* (AERA, APA, NCME 2014) indicates the following about reliability:

The term *reliability* has been used in two ways in the measurement literature. First, the term has been used to refer to the reliability coefficients of classical test theory, refined as the correlation between scores on two equivalent forms of the test, presuming that taking one form has no effect on performance on the second form. Second, the term has been used in a more general sense, to refer to the consistency of scores across relications of a testing procedure, regardless of how this consistency is estimated or reported (e.g., in terms of standard errors, reliability coefficients per se, generalizability coefficient, error/tolerance ratios, item response theory (IRT) information functions, or various indices of classification consistency). (p. 33)

A reliable test produces stable scores; that is, very similar score distributions would result if the test were administered repeatedly under similar conditions to the same students without memory or fatigue affecting the scores. Reliability of the Spring 2017 AZELLA Reassessment Tests was estimated in two ways: internal consistency for all tests and reliability of scoring for all open-ended items. Please refer to the 2014 Technical Report (Arizona Department of Education 2014b) for the internal consistency and reliability of scoring for all open-ended items for AZELLA Placement Tests.

#### 10.1.1 Measures of Internal Consistency

For test reliability, coefficient alpha is a frequently used measure of internal consistency. Coefficient alpha is computed as

$$\alpha = \frac{k}{k-1} \left( 1 - \frac{\sum \sigma_i^2}{\sigma_X^2} \right)$$

where  $k$  = the number of items,  $\sigma_X^2$  = the variance of total score, and  $\sigma_i^2$  = the variance of item  $i$  (Crocker & Algı 1986; Cronbach 1951).

Typically, a test score is obtained from a single observation of performance and represents an estimate of the trait being measured. As an estimate, an observed test score contains some measurement error and does not perfectly reflect an individual's true score. The degree of measurement error in a test score can be estimated using a statistic called the standard error of measurement (SEM). SEM is calculated as follows

$$SEM = \sigma_X \sqrt{1 - r},$$

where  $\sigma_X$  is a standard deviation of total score  $X$ , and  $r$  is a reliability coefficient such as coefficient alpha (Crocker & Algina 1986).

Table 10.1 presents coefficient alphas and SEMs, which are computed based on the calibration sample for Total Combined and four domains (Listening, Speaking, Reading, and Writing) by form for each stage. Coefficient alphas and SEMs for subgroups are presented in appendix E. Coefficient alphas across the subgroups were generally similar.

**Table 10.1. Coefficient Alpha and SEM for the AZELLA Reassessments**

Stage	Domain	N	Coefficient Alpha	SEM
I	Total Combined	12566	0.903	3.567
	Listening	12566	0.744	1.511
	Speaking	12566	0.686	1.740
	Reading	12566	0.780	1.813
	Writing	12566	0.834	1.715
II	Total Combined	18140	0.902	9.354
	Listening	18140	0.699	1.619
	Speaking	18140	0.819	2.614
	Reading	18140	0.801	2.385
	Writing	18140	0.769	1.986
III	Total Combined	22847	0.908	9.464
	Listening	22847	0.633	1.688
	Speaking	22847	0.835	2.592
	Reading	22847	0.789	2.306
	Writing	22847	0.816	2.099
IV	Total Combined	11899	0.924	9.599
	Listening	11899	0.681	1.666
	Speaking	11899	0.884	2.402
	Reading	11899	0.842	2.304
	Writing	11899	0.807	2.274
V	Total Combined	7668	0.920	9.074
	Listening	7668	0.690	1.672
	Speaking	7668	0.888	2.015
	Reading	7668	0.807	2.334
	Writing	7668	0.776	2.332

### 10.1.2 Interrater Reliability

For open-ended items, the consistency with which two raters assign scores to student responses is typically determined by interrater agreement. Such items include short answer writing items, extended response writing items, oral reading items, and speaking short answer items. The Speaking repeat items were excluded from the analysis because the items were scored holistically only by the trained scoring engine. In scoring the open-ended items, each student response was randomly assigned to a rater. Ten percent of the student responses were scored by a second rater. Because different raters scored different responses, the interrater statistics did not measure the degrees of agreement or disagreements between the same two raters across the entire set of responses. Therefore, it is more accurate to describe the interrater agreement reported in this section as interrater position reliability.

The read-behind student responses were randomly selected and scored by a second rater to reduce rater drift and allow measures of rater agreement to be estimated. The statistics were calculated using the scores from both raters.

Cohen's kappa and the intraclass correlation are provided as indices of agreement between the first and second rating.

Cohen's kappa (Cohen 1960) is commonly used to summarize the agreement between raters corrected for chance agreement and is computed as (Brennan & Prediger 1981)

$$\kappa = \frac{\sum P_{ii} - \sum P_i P_i}{1 - \sum P_i P_i},$$

where  $\sum P_{ii}$  is the observed proportion of agreement and  $\sum P_i P_i$  is the chance proportion of agreement.

The intraclass correlation is defined by Shrout and Fleiss (1979) as “the correlation between one measurement (either a single rating or a mean of ratings) on a target and another measurement obtained on that target” (p. 422). In the context of the AZELLA field tests, the “target” was the student response, and each measurement was obtained by a randomly assigned rater to that response. Therefore,  $ICC(1,1)$  was used to estimate intraclass correlation.  $ICC(1,1)$  is estimated as (Shrout & Fleiss 1979)

$$ICC(1,1) = \frac{BMS - WMS}{BMS + (k-1)WMS},$$

where  $BMS$  = between-targets mean square,  $WMS$  = within-targets mean square, and  $k$  = the number of raters rating each target.

The interrater reliability coefficients described above are presented by stage and domain in appendix E. Table 10.2 summarize the average kappa and interclass correlation by domain.

**Table 10.2. Interrater Reliability Statistics for the AZELLA Reassessments**

Stage	Domain	Number of Items	Mean Kappa	Mean Intraclass Correlation
I	Speaking	7	0.42	0.64
	Writing	9	0.77	0.92
II	Reading	3	0.44	0.68
	Speaking	7	0.31	0.77
	Writing	2	0.50	0.87
III	Reading	3	0.36	0.51
	Speaking	7	0.35	0.77
	Writing	2	0.47	0.87
IV	Reading	2	0.36	0.53
	Speaking	7	0.3	0.83
	Writing	2	0.47	0.89
V	Speaking	7	0.32	0.82
	Writing	2	0.47	0.90

## 10.2 Validity

“Validity refers to the degree to which evidence and theory support the interpretations of test scores entailed for proposed uses of tests. Validity is, therefore, the most fundamental consideration in developing and evaluating tests” (AERA/APA/NCME 2014, 11). The purpose of test score validation is not to validate the test itself but to validate interpretations of the test scores for particular purposes or uses. Test score validation is not a quantifiable property but an ongoing process, beginning at initial conceptualization and continuing throughout the entire assessment process.

The Spring 2017 AZELLA Reassessments were designed and developed to provide fair and accurate ability scores that support appropriate, meaningful, and useful educational decisions. In addition to the evidence provided in Chapter 2 (Involvement of Arizona Educators), additional validity evidence may be found in the following sections of this report as described in: Chapter 3 (Test Design), Chapter 4 (Test Construction), Chapter 5 (Test Administration), Chapter 6 (Scoring of Open-Ended Items), Chapter 7 (Classical Item Analysis), Chapter 8 (Calibration, Equating and Scaling), Chapter 9 (Test Results by Subgroup), Section 10.1 (Reliability), and Chapter 11 (Classification). As the technical report has progressed, chapter by chapter, it has moved through the phases of the testing cycle. Each part of the technical report details the procedures and processes applied in the creation of AZELLA, as well as their results. Each part also highlights the meaning and significance of the procedures, processes, and results in terms of content and construct validity and the relationship to the ELP Standards. Part 10.2 addresses two final issues in validity: bias and construct validity. The analyses presented here add to the perspectives provided in Chapters 2 through 10. Below is a brief review.

Chapter 2 of the technical report described the involvement of Arizona educators, ADE, and Pearson in the test development process. As indicated in Chapter 2, the test development process and the involvement of Arizona educators in that process formed an important part of the validity of the entire AZELLA. The knowledge, expertise, and professional judgment offered by Arizona educators ultimately ensured that the content of AZELLA formed an adequate and representative sample of appropriate content and that the content formed a legitimate basis upon which to validly derive conclusions about student achievement.

Chapters 3 and 4 of the technical report addressed the issue of test design and test form construction. Chapter 3 summarized content standards, item specification, and the blueprint for AZELLA. Chapter 4 provided a general discussion of the test book creation and editing process, the process of selecting operational test items, the content distribution of embedded field-test items, and the process of obtaining ADE approvals. The test design process and the participation of Arizona educators in the process of item development and selection, including item content and bias review, provide a solid rationale for having confidence in the content and design of AZELLA as a tool from which to derive valid inferences about Arizona students' proficiency in English.

Chapter 5 of the technical report described the process, procedures, and policies that guided the administration of the AZELLA, including accommodations, security, and the written procedures provided to test administrators and school personnel.

Chapter 6 addressed the quality of human and machine scoring on the OE items. The chapter also presented the validation study of machine scoring on the Speaking items for the Spring 2017 Reassessment.

Chapter 7 described classical data analysis of the Spring 2017 Reassessment.

Chapter 8 of the technical report described the calibration, scaling, and equating methods, as well as processes and procedures for deriving scale scores from students' raw scores and the data cleaning steps which ensure valid calibration and scaling. Some references to introductory and advanced discussions of IRT are provided.

Chapter 9 of the technical report dealt with the test results, including descriptive statistics and proficiency levels on Overall, Total Combined, domains, and subdomains. These statistics are also presented by subgroup.

Chapter 10 above dealt with reliability of the AZELLA test overall as well as by domains. It described coefficient alpha as a measure for internal consistency. It also dealt with interrater reliability for open-ended items.

Chapter 10 below presents additional evidence to support the validity of the Spring 2017 AZELLA Reassessment by providing the following:

- An analysis of Differential Item Functioning (DIF) for all operational items administered in the Spring 2017 AZELLA Reassessment where any items that displayed differential item functioning for subgroups of ethnicity and gender were identified.

- Correlations between scores on the domains of the Spring 2017 AZELLA Reassessment for each stage as construct validity was presented.

Chapter 11 of the technical report will describe a detailed analysis of classification consistency and classification accuracy.

Also note that further evidence in support of the AZELLA assessment has been documented in previous technical reports including the standard setting technical reports (Arizona Department of Education 2013a, 2013b).

### 10.2.1 Differential Item Functioning

Because test scores can have many sources of variation, the test developers' task is to create assessments that measure the intended abilities and skills without introducing extraneous elements or construct irrelevant variance. When tests measure something other than what they are intended to measure, test scores will reflect these unintended skills and knowledge, as well as what is purportedly assessed by the test. If this occurs, these tests can be called biased (Angoff 1993; Camilli & Shepard 1994; Green 1975; Zumbo 1999). One of the factors that may render test scores biased is differing cultural and socioeconomic experiences.

Analysis of Differential Item Functioning (DIF) is a statistical method to detect potential bias of an item. DIF is defined as a difference between groups (e.g., male and female) in the probability of getting an item correct. These analyzes are conditioned on the ability that the assessment is intended to measure. Two types of DIF, namely uniform DIF and non-uniform DIF, are investigated. Uniform DIF means that, given the ability, the probability of getting an item correct is always higher for one subgroup than the other across the full range of the ability continuum. In other words, the direction of DIF remains the same on the entire ability continuum. On the other hand, non-uniform DIF occurs when the direction of DIF changes at some point within the ability continuum. DIF is an indicator that the item might exhibit bias for one group over the other, not that it actually does. If DIF exists on an item, a committee composed of a group of subject experts reviews the item to determine whether it actually shows bias. To date, many DIF detection methods have been proposed. For the Spring 2017 AZELLA Reassessment, three DIF methods were used.

The Mantel-Haenszel (MH) method (Holland & Thayer 1988; Mantel & Haenszel 1959) was used to investigate DIF on one-point items. The MH method is frequently used and efficient in terms of statistical power (Clauser & Mazor 1998). The Mantel-Haenszel chi-square statistic is computed as

$$MH - \chi^2 = \frac{(\sum_k F_k - \sum_k E(F_k))^2}{\sum_k Var(F_k)},$$

where  $F_k$  is the sum of scores for the focal group at the  $k^{\text{th}}$  level of the matching variable (Zwick, Donoghue, & Grima 1993). Note that the MH statistic is sensitive to  $N$  such that larger sample sizes increase the value of chi-square.

In addition to the MH chi-square statistic, the MH delta statistic ( $\Delta MH$ ) was computed. Educational Testing Service (ETS) first developed the  $\Delta MH$  DIF statistic. To compute the  $\Delta MH$  DIF, the MH alpha (the odds ratio) is first computed

$$\alpha_{MH} = \frac{\sum_{k=1}^K N_{r1k} N_{f0k} / N_k}{\sum_{k=1}^K N_{f1k} N_{r0k} / N_k},$$

where  $N_{r1k}$  is the number of correct responses in the reference group at ability level  $k$ ,  $N_{f0k}$  is the number of incorrect responses in the focal group at ability level  $k$ ,  $N_k$  is the total number of responses,  $N_{f1k}$  is the number of correct responses in the focal group at ability level  $k$ , and  $N_{r0k}$  is the number of incorrect responses in the reference group at ability level  $k$ . The  $\Delta MH$  DIF is the computed as

$$\Delta MH DIF = -2.35 \ln(\alpha_{MH}).$$

Positive values of  $\Delta MH$  DIF indicate items that favor the focal group whereas negative values of  $\Delta MH$  DIF indicate items that favor the reference group.

The MH chi-square statistic and the  $\Delta MH$  DIF were used in combination to identify both operational and field-test items that exhibit strong, weak, or no DIF (Zieky 1993). The summary of DIF classification criteria is presented in table 10.3. An alpha level of .01 was used for all MH statistics.

**Table 10.3. Differential Item Functioning Flag Categories based on the MH Statistics**

Category	Description	Criterion
A	No DIF	MH chi-square not significantly different from 0 or $ \Delta MH DIF  < 1.0$
B	Weak DIF	Significant Mantel-Haenszel chi-square ( $p < .01$ ) and $1.0 \leq  \Delta MH DIF  < 1.5$
C	Strong DIF	Significant Mantel-Haenszel chi-square ( $p < .01$ ) and $ \Delta MH DIF  \geq 1.5$

The standardized mean difference ( $SMD$ ; Zwick et al. 1993) is another DIF method applied to one-point items as well as multiple-point items. The  $SMD$  is an effect size index of DIF. It compares the mean scores of the reference and focal groups for an item, adjusting for the distribution of reference and focal group on the conditioning variable, which for the analyses is the raw score. The  $SMD$  is computed as

$$SMD = \sum_k P_{F_k} (m_{F_k} - m_{R_k}),$$

where  $P_{F_k}$  is the proportion of the focal group at the  $k^{\text{th}}$  level of the matching variable,  $m_{F_k}$  is the mean score on the item for the focal group at the  $k^{\text{th}}$  level of the matching variable, and  $m_{R_k}$  is the mean score on the item for the reference group at the  $k^{\text{th}}$  level of the matching variable (Zwick et al. 1993). A negative *SMD* value indicates that an item on which the focal group has a lower mean than the reference group, conditioned on the matching variable. On the other hand, a positive *SMD* value indicates an item on which the reference group has a lower mean than the focal group, conditioned on the matching variable. The summary of DIF classification criteria for *SMD* is presented in table 10.4. An alpha level of .01 was used for all *SMD* statistics.

**Table 10.4. Differential Item Functioning Flag Categories based on the *SMD* Statistics**

Category	Description	Criterion
A	No DIF	<i>SMD</i> not significantly different from 0 or $ SMD  < 0.17$
B	Weak DIF	Significant <i>SMD</i> ( $p < .01$ ) and $0.17 \leq  SMD  < 0.25$
C	Strong DIF	Significant <i>SMD</i> ( $p < .01$ ) and $ SMD  \geq 0.25$

MH and *SMD* DIF statistics for the 2017 Spring AZELLA Spring Reassessment are presented by stage and domain in table F.1 through table F.40 in appendix F. Please refer to the 2014 Technical Report (Arizona Department of Education 2014b) for the MH and *SMD* DIF statistics for the AZELLA Placement tests. Note that DIF flags for one-point items are based on the Mantel-Haenszel statistics while DIF flags for multiple-point items are based on the *SMD* statistics. Table 10.5 summarizes the number of operational items showing strong DIF associated with any group comparison.

**Table 10.5. Number of Strong DIF Items by Domain**

Stage	Domain	Number of Items	Number of Items with Strong DIF
I	Listening	14	0
	Speaking	8	1
	Reading	18	0
	Writing	9	0
II	Listening	14	0
	Speaking	8	0
	Reading	23	0
	Writing	15	0
III	Listening	14	0
	Speaking	8	1
	Reading	26	0
	Writing	18	0
IV	Listening	14	0
	Speaking	8	4

Stage	Domain	Number of Items	Number of Items with Strong DIF
	Reading	28	1
	Writing	20	0
V	Listening	14	1
	Speaking	8	4
	Reading	28	1
	Writing	20	5

### 10.2.2 Correlation Among Domains

Correlations were examined between on Total Combined raw score and the domain raw scores (Listening, Speaking, Reading, and Writing) for the Spring 2017 AZELLA Reassessment by stage. The data used to calculate the correlations were based on the calibration sample described in Chapter 7.

All correlations are presented in table 10.6 through table 10.10. The patterns of correlation are consistent between forms within a stage as well as among stages.

The numbers in parentheses below the correlation coefficients are corrected correlation coefficients for attenuation which are calculated based on the following formula,

$$r_{T_{xy}} = \frac{r_{xy}}{\sqrt{r_x r_y}},$$

where  $r_{T_{xy}}$  is a corrected correlation for attenuation between scores  $x$  and  $y$ ,  $r_{xy}$  is an observed correlation between the scores  $x$  and  $y$ , and  $r_x$  and  $r_y$  are reliabilities for  $x$  and  $y$ , respectively. Coefficient alphas, presented in table 10.1, were used to calculate the corrected correlation coefficients for attenuation.

**Table 10.6. Correlations between Total Combined and Domains for the AZELLA Stage I Reassessment**

Form A	Total Combined	Listening	Reading	Writing	Speaking
Total	1.00 (1.00)	0.81 (0.99)	0.87 (1.03)	0.84 (0.97)	0.69 (0.88)
Listening	0.81 (0.99)	1.00 (1.03)	0.66 (0.86)	0.55 (0.69)	0.46 (0.64)
Reading	0.87 (1.00)	0.66 (0.86)	1.00 (1.00)	0.65 (0.81)	0.43 (0.59)
Writing	0.84 (0.97)	0.55 (0.69)	0.65 (0.81)	1.00 (1.00)	0.41 (0.55)
Speaking	0.69 (0.88)	0.46 (0.64)	0.43 (0.59)	0.41 (0.55)	1.00 (1.00)

**Table 10.7. Correlations between Total Combined and Domains for the AZELLA Stage II Reassessment**

	Total Combined	Listening	Reading	Writing	Speaking
Total	1.00 (1.00)	0.76 (0.96)	0.91 (1.07)	0.88 (1.06)	0.67 (0.78)
Listening	0.76 (0.96)	1.00 (1.00)	0.61 (0.81)	0.58 (0.79)	0.39 (0.52)
Reading	0.91 (1.07)	0.61 (0.81)	1.00 (1.00)	0.76 (0.97)	0.46 (0.57)
Writing	0.88 (1.06)	0.58 (0.79)	0.76 (0.97)	1.00 (1.00)	0.45 (0.57)
Speaking	0.67 (0.78)	0.39 (0.52)	0.46 (0.57)	0.45 (0.57)	1.00 (1.00)

**Table 10.8. Correlations between Total Combined and Domains for the AZELLA Stage III Reassessment**

	Total Combined	Listening	Reading	Writing	Speaking
Total	1.00 (1.00)	0.76 (1.00)	0.89 (1.05)	0.90 (1.04)	0.72 (0.83)
Listening	0.76 (1.00)	1.00 (1.00)	0.61 (0.86)	0.56 (0.78)	0.47 (0.65)
Reading	0.89 (1.05)	0.61 (0.86)	1.00 (1.00)	0.74 (0.93)	0.47 (0.58)
Writing	0.90 (1.04)	0.56 (0.78)	0.74 (0.93)	1.00 (1.00)	0.55 (0.66)
Speaking	0.72 (0.83)	0.47 (0.65)	0.47 (0.58)	0.55 (0.66)	1.00 (1.00)

**Table 10.9. Correlation between Total Combined and Domains for the AZELLA Stage IV Reassessment**

	Total Combined	Listening	Reading	Writing	Speaking
Total	1.00 (1.00)	0.79 (1.00)	0.91 (1.03)	0.90 (1.05)	0.74 (0.82)
Listening	0.79 (1.00)	1.00 (1.00)	0.65 (0.86)	0.62 (0.84)	0.52 (0.67)
Reading	0.91 (1.03)	0.65 (0.86)	1.00 (1.00)	0.76 (0.92)	0.52 (0.60)
Writing	0.90 (1.05)	0.62 (0.84)	0.76 (0.92)	1.00 (1.00)	0.57 (0.68)
Speaking	0.74 (0.82)	0.52 (0.67)	0.52 (0.60)	0.57 (0.68)	1.00 (1.00)

**Table 10.10. Correlations between Total Combined and Domains for the AZELLA Stage V Reassessment**

	Total Combined	Listening	Reading	Writing	Speaking
Total	1.00 (1.00)	0.82 (1.02)	0.89 (1.04)	0.92 (1.09)	0.75 (0.83)
Listening	0.82 (1.02)	1.00 (1.00)	0.64 (0.86)	0.67 (0.92)	0.56 (0.71)
Reading	0.89 (1.04)	0.64 (0.86)	1.00 (1.00)	0.75 (0.95)	0.50 (0.59)
Writing	0.92 (1.09)	0.67 (0.92)	0.75 (0.95)	1.00 (1.00)	0.62 (0.75)
Speaking	0.75 (0.83)	0.56 (0.71)	0.50 (0.59)	0.62 (0.75)	1.00 (1.00)

## Chapter 11. CLASSIFICATION

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Part 11 of this technical report provides information regarding classifying students into proficiency categories for the Spring 2017 AZELLA Reassessment Tests. Please refer to the 2015 Technical Report (Arizona Department of Education 2015) and 2014 Technical Report (Arizona Department of Education 2014b) for the conditional standard error of measurement (CSEM) at Proficient cut and classification statistics for the Kindergarten Placement Test and AZELLA Stage II through Placement tests, respectively. The following 1999 AERA/APA/NCME standards (AERA, APA, NCME 1999) are covered in this part: 1.5, 1.7, 2.2, 2.14, 2.15, 4.9, 4.19, 4.20, 4.21, and 6.5. The 2014 AERA/APA/NCME standards (AERA, APA, NCME 2014) addressed by this chapter are: 1.8, 1.9, 2.13, 2.14, 2.16, 5.5, 5.21, 5.22, 5.23, and 7.4.

Scores for the AZELLA Stages I through V tests are used to classify students into one of four Overall proficiency categories: *Pre-Emergent/Emergent*, *Basic*, *Intermediate*, and *Proficient*. This part of the technical report provides information regarding classifying students into these four performance categories. Arizona educators made recommendations for cut scores for each category in the standard-setting workshops. Analyses were conducted to examine the consistency and accuracy with which students who took the Spring 2017 AZELLA Reassessment were assigned to performance categories.

### 11.1 Standard Setting Technical Documentation

Standard setting for the AZELLA Stages I through V tests was conducted in early May and late June 2013, using the bookmark standard-setting procedure. All technical documentation regarding the standard setting is available in the bookmark standard-setting technical report (Arizona Department of Education 2013b). Four proficiency levels (Pre-Emergent/Emergent, Basic, Intermediate, and Proficient) are present on Overall and Total Combined while three proficiency levels (Pre-Emergent/Emergent/Basic, Intermediate, and Proficient) are present on domains (Listening, Speaking, Reading, and Writing) and subdomains (Language, Oral, Comprehension, and Literacy).

Starting Placement 2016-2017 administration, the Proficient cut for Total Combined, Reading, and Writing for Stages III through V was increased. The new Proficient cut as well as the original Proficient cut are presented in table 11.1. Consequently, the following decisions were made to also increase the Proficient cut for subdomains related to Reading and/or Writing (i.e., Language, Comprehension, Literacy). The following rules were applied for new Proficient cuts for those subdomains:

- Language: Pick an underlying theta cut which corresponds to a new Proficient cut in scale score for Total Combined.
- Comprehension: Apply an average Proficient cut between a new Proficient cut in Reading and the current Proficient cut in Listening.
- Literacy: Pick a lower Proficient cut between a new Proficient cut in Reading and Writing.

**Table 11.1. AZELLA Proficient Cuts for Stages III-V**

Grade(s)	Total Combined		Reading		Writing	
	New	Original	New	Original	New	Original
3	2474	2457	260	250	250	250
4	2499	2472	270	250	267	250
5	2523	2473	280	250	290	250
6	2530	2477	270	250	280	250
7	2535	2477	280	250	290	250
8	2540	2477	290	250	290	250
9-12	2550	2508	270	250	270	250

After new Proficient cuts for the domains (and subdomains) of Reading, Writing, Language, Comprehension, and Literacy were determined, the scale scores for these were adjusted such that the Proficient cut would remain 250, and the Intermediate cut also would remain 230. The corresponding underlying theta cut stayed the same as the new cut in the following steps.

1. Using the current scaling constants for a domain or subdomain, the new Proficient cut in scale score was transformed back to the underlying theta scale by

$$\theta_{New\ Proficient} = (SS_{New\ Proficient} - B)/A,$$

where  $\theta_{New\ Proficient}$  is a new Proficient cut in theta,  $SS_{New\ Proficient}$  is a new Proficient cut in scale score,  $B$  is a location constant, and  $A$  is a scaling constant.

2. An Intermediate cut in theta,  $\theta_{Intermediate}$ , was also obtained by repeating Step 1.
3. New scaling constants were calculated by solving the following equations,

$$A' \times \theta_{Intermediate} + B' = 230$$

$$A' \times \theta_{New\ Proficient} + B' = 250,$$

where  $A'$  and  $B'$  are new scaling constants to transform the Intermediate and new Proficient cuts in theta into 230 and 250 in scale scores, respectively.

The final proficiency cuts on Total Combined and all domains (Listening, Speaking, Reading, and Writing) and subdomains (Language, Oral, Comprehension, Literacy) vary across grades within a stage for Stages II through IV. The final proficiency ranges on Total Combined in scale score are presented in table 11.2. The final proficiency ranges on the domains are 100-229 (Pre-Emergent/Emergent/Basic), 230-249 (Intermediate), and 250-400 (Proficient). Note that the proficiency levels on Overall are based on a combination of proficiency levels on Total Combined, Reading, and Writing; therefore there is no scale score associated with Overall.

**Table 11.2. Final Scale Score Ranges by Proficiency Level on Total Combined for the Stage I through V Assessments**

Stage	Grade(s)	Pre-Emergent/ Emergent	Basic	Intermediate	Proficient
I	Kindergarten	2000-2240	2241-2282	2283-2326	2327-3000
II	01	2000-2294	2295-2338	2339-2384	2385-3000
II	02	2000-2337	2338-2382	2383-2427	2428-3000
III	03	2000-2369	2370-2413	2414-2473	2474-3000
III	04	2000-2390	2391-2433	2434-2498	2499-3000
III	05	2000-2400	2401-2441	2442-2522	2523-3000
IV	06	2000-2403	2404-2442	2443-2529	2530-3000
IV	07	2000-2403	2404-2442	2443-2534	2535-3000
IV	08	2000-2403	2404-2442	2443-2539	2540-3000
V	09-12	2000-2425	2426-2467	2468-2549	2550-3000

The AZELLA Kindergarten Placement Test Proficient cut score was also increased to 257 from 245, starting in Placement 2016-2017 administration.

## 11.2 Classification Consistency and Accuracy

This section describes the analyses conducted to estimate classification consistency and accuracy for the Spring 2017 AZELLA Reassessment Tests. Classification consistency can be defined as the agreement between examinees' performance category classification from two independent administrations of the same test (or two parallel forms of the test). Classification accuracy can be defined as the agreement between the actual classifications using observed cut scores and true classifications based on known true cut scores (Livingston & Lewis 1995).

In conjunction with internal consistency, classification consistency is an important type of reliability and is particularly relevant to high-stakes decisions such as whether exiting or not exiting the EL program depending on passing or not passing the AZELLA tests. As a form of reliability, classification consistency represents how reliably students can be classified into performance categories. Please see Chapter 9 of this report for more information on the internal consistency of the AZELLA assessments.

For tests such as the AZELLA assessments, classification consistency is most important for students whose ability is near the Proficient cut score. Students whose ability is far above or far below the value established for Proficient are unlikely to be misclassified because repeated administration of the test will nearly always result in the same classification. Examinees whose true scores are close to the cut score are a more serious concern. These students' true scores will likely lie within the standard error of measurement of the cut score. For this reason, the measurement error at the cut scores should be considered when evaluating the classification consistency of a test.

Classification consistency and accuracy for the AZELLA tests were estimated on Total Combined for the Proficient cut using procedures described by Livingston and Lewis (1995). Note that a decision of whether a student exits the EL program is made based on the proficiency level in Overall, which is a combination of proficiency levels on Total Combined, Reading, and

Writing. However, there is no score associated with Overall. Thus, classification consistency and accuracy for the AZELLA tests were estimated on Total Combined. Classification consistency is calculated as a proportion of students in the diagonal (i.e., students classified consistently between two parallel forms) in figure 11.1. Similarly, classification accuracy is calculated as a proportion of students in the diagonal (i.e., students classified the same between observed scores and true scores) in figure 11.2. In addition, Cohen’s kappa is calculated. The Cohen’s kappa ( $\kappa$ ) coefficient (Cohen 1960) is another way of expressing overall consistency. This statistic assesses the proportion of consistent classification expected beyond chance; therefore it is most often lower than the unadjusted value of overall consistency.

$$\kappa = \frac{P - P_c}{1 - P_c},$$

where  $P_c$  is the probability of consistent classification by chance and  $P$  is the probability of consistent classification (unadjusted by chance).

Students can be misclassified in one of two ways for the AZELLA tests. Students who are truly not Proficient but were classified as being Proficient, based on the assessment, are considered to be false positives. Similarly, students who are truly Proficient but were classified as being not Proficient are considered to be false negatives.

**Figure 11.1. Classification Consistency for the Proficient Cut**

		Expected Performance on Parallel Form	
		Not Proficient	Proficient
Observed Performance on Actual Form	Not Proficient	Consistent Classification	Inconsistent Classification
	Proficient	Inconsistent Classification	Consistent Classification

**Figure 11.2. Classification Accuracy for the Proficient Cut**

		Expected Performance	
		Not Proficient	Proficient
Observed Performance	Not Proficient	Accurate Classification	False Negative
	Proficient	False Positive	Accurate Classification

For convenience, the scale score cut at Proficient and associated CSEM are presented for the Stages I through V Reassessment tests on Total Combined and domains (Listening, Speaking, Reading, and Writing) in table 11.3. Note that the scale score may not be the exact Proficient level cut as it is the lowest scale score that appears in the raw-to-scale score table for the cut. For the exact Proficient level cut on the Total Combined Scale Score for the Stages I through V assessments, please refer to table 11.2. The exact Proficient level cut for each of the domains is set at 250. Also note that CSEMs across domains are not comparable because they have their own scale.

**Table 11.3. CSEM at Proficient Cut on Total Combined Scale Score for the Stage I through V Reassessments**

Stage	Grade(s)	Domain	Scale Score on Proficient Cut	CSEM
I	Kindergarten	Total	2327	18
		Listening	253	19
		Speaking	260	20
		Reading	252	15
		Writing	254	15
II	01	Total	2385	11
		Listening	254	12
		Speaking	252	11
		Reading	251	8
		Writing	251	10
	02	Total	2429	12
		Listening	251	13
		Speaking	251	12
		Reading	251	8
		Writing	250	11
III	03	Total	2475	12
		Listening	251	12
		Speaking	255	17
		Reading	251	6
		Writing	251	10
	04	Total	2500	13
		Listening	255	14
		Speaking	263	29
		Reading	250	5
		Writing	251	7
		Total	2523	14
		Listening	256	17
		Speaking	266	35
		Reading	250	6
		Writing	251	7
IV	06	Total	2532	13
		Listening	252	16
		Speaking	253	17
		Reading	251	6
		Writing	250	5
	07	Total	2537	13
		Listening	252	16
		Speaking	253	17
		Reading	250	5
		Writing	251	5
08	Total	2540	13	
	Listening	252	16	
	Speaking	253	17	
	Reading	250	4	
	Writing	251	5	
V	09 - 12	Total	2551	13
		Listening	252	13
		Speaking	250	18
		Reading	251	5
		Writing	251	5

Classification consistency and accuracy for the Spring 2017 AZELLA Reassessment are presented in table 11.4. These results are for classifying students whether they are Proficient or not based on the calibration sample. Included in the table for each grade and content area are case counts (N), classification consistency (Consistency), classification inconsistency (Inconsistency), probability of consistent classification by chance (Chance), Cohen’s Kappa ( $\kappa$ ), classification accuracy (Accuracy), false positive (False Positive), and false negative (False Negative). Inconsistency is defined as one minus Consistency.

**Table 11.4. Classification Consistency and Accuracy for the Stage I through V Reassessments**

Stage	Grade(s)	N	Consistency	Inconsistency	Chance	$\kappa$	Accuracy	False Positive	False Negative
I	Kindergarten	12566	0.87	0.13	0.50	0.73	0.90	0.05	0.04
II	01	9122	0.90	0.10	0.60	0.75	0.93	0.04	0.03
II	02	9018	0.88	0.12	0.54	0.73	0.91	0.05	0.04
III	03	8225	0.94	0.06	0.83	0.67	0.96	0.02	0.01
III	04	8221	0.89	0.11	0.71	0.63	0.92	0.04	0.03
III	05	6401	0.86	0.14	0.76	0.43	0.90	0.06	0.04
IV	06	4310	0.94	0.06	0.87	0.59	0.96	0.03	0.01
IV	07	4197	0.90	0.10	0.78	0.57	0.93	0.04	0.03
IV	08	3392	0.88	0.12	0.73	0.55	0.91	0.05	0.04
V	09-12	7668	0.92	0.08	0.79	0.61	0.94	0.03	0.02

NOTE: Results were computed using BB-CLASS (Brennan 2004).

Since a Proficient cut for Kindergarten Placement Test was increased to 257 from 245, the classification consistency and accuracy were calculated based on the Placement 2016-2017 data, presented in table 11.5

**Table 11.5. Classification Consistency and Accuracy for Kindergarten Placement Test in Placement 2016-2017**

Stage	Grade(s)	N	Consistency	Inconsistency	Chance	$\kappa$	Accuracy	False Positive	False Negative
I	Kindergarten	20508	0.72	0.28	0.57	0.36	0.78	0.09	0.14

NOTE: Results were computed using BB-CLASS (Brennan 2004).

## Chapter 12. REFERENCES

- American Educational Research Association, American Psychological Association, and National Council on Measurement in Education. (1999). *Standards for Educational and Psychological Testing*. Washington, DC: American Educational Research Association.
- American Educational Research Association, American Psychological Association, and National Council on Measurement in Education. (2014). *Standards for Educational and Psychological Testing*. Washington, DC: American Educational Research Association.
- Angoff, W. (1993). Perspective on Differential Item Functioning Methodology. In P. W. Holland & H. Wainer (Eds.), *Differential Item Functioning* (pp. 3–24). Hillsdale, NJ: Lawrence Erlbaum Associates.
- Arizona Department of Education (2015). *Arizona English Language Learner Assessment 2015 Technical Report*. Iowa City, IA: Pearson. Available from <http://www.azed.gov>.
- Arizona Department of Education (2014a). *Arizona English Language Learner Assessment Evidence-Based Standard Setting Review Report: Kindergarten Placement Test*. Phoenix, AZ: Author. Available from <http://www.azed.gov>.
- Arizona Department of Education. (2013a). *Arizona English Language Learner Assessment Standard Setting Report: Kindergarten Placement Test*. Iowa City, IA: Pearson. Available from <http://www.azed.gov>.
- Arizona Department of Education (2013b). *Arizona English Language Learner Assessment Standard Setting Report: Stage I – V*. Iowa City, IA: Pearson. Available from <http://www.azed.gov>.
- Arizona Department of Education. (2013c). *Arizona English Language Learner Assessment 2013 Field Test Technical Report*. Iowa City, IA: Pearson. Available from <http://www.azed.gov>.
- Arizona Department of Education (2013d). *Arizona English Language Learner Assessment 2013 Technical Report*. Iowa City, IA: Pearson. Available from <http://www.azed.gov>.
- Arizona Department of Education (2014b). *Arizona English Language Learner Assessment 2014 Technical Report*. Iowa City, IA: Pearson. Available from <http://www.azed.gov>.
- Camilli, G., & Shepard, L. A. (1994). *Methods for Identifying Biased Test Items*. Newbury Park, CA: Sage.
- Clauser, B. E., & Mazor, K. M. (1998). Using Statistical Procedures to Identify Differentially Functioning Test Items. *Educational Measurement: Issues and Practice*, 17: 31-44.
- Crane, P.K., Gibbons, L. E., Jolley, L., & van Belle, G. (2006). Differential Item Functioning Analysis with Ordinal Logistic Regression Techniques: DIFdetect and Difwithpar. *Medical Care*, 44: 115-123.
- Cronbach, L. J. (1951). Coefficient Alpha and the Internal Structure of Tests. *Psychometrika*, 12: 671-684.

- Embretson, S. E., & Reise, S. P. (2000). *Item Response Theory for Psychologists*. Mahwah, NJ: Erlbaum.
- Espinosa, L. M., & Lopez, M. L. (2007). *Assessment Considerations for Young English Language Learners Across Different Levels of Accountability*. Paper prepared for The National Early Childhood Accountability Task Force and First 5 LA. Prepared with support from The Pew Charitable Trusts, the Foundation for Child Development, the Joyce Foundation and First 5 LA. Retrieved from [http://www.pewtrusts.org/~media/legacy/uploadedfiles/wwwpewtrustsorg/reports/pre-k\\_education/assessment20for20young20ellspew2081107finalpdf.pdf](http://www.pewtrusts.org/~media/legacy/uploadedfiles/wwwpewtrustsorg/reports/pre-k_education/assessment20for20young20ellspew2081107finalpdf.pdf).
- Green, D. R. (1975, December). *Procedures for Assessing Bias in Achievement Tests*. Presented at the National Institute of Education Conference on Test Bias, Annapolis, MD.
- Holland, P. W., & Thayer, D. T. (1988). Differential Item Functioning and the Mantel-Haenszel Procedure. In H. Wainer & H. I. Braun (Eds.), *Test Validity* (pp. 129–145). Hillsdale, NJ: Lawrence Erlbaum Associates.
- Linacre, J. M. (2014). *A Users's Guide to Winsteps® Ministep Rasch-Model Computer Programs: Program Manual 3.81.0*. Beaverton, OR: Winsteps.com.
- Linacre, J. M. (2015). Winsteps® (Version 3.90.0) [Computer Software]. Beaverton, Oregon: Winsteps.com.. Retrieved January 1, 2015. Available from <http://www.winsteps.com/>
- Livingston, S. A., & Lewis, C. (1995). Estimating the Consistency and Accuracy of Classifications Based on Test Scores. *Journal of Educational Measurement*, 32: 179-197.
- Mantel, N., & Haenszel, W. (1959). Statistical Aspects of the Analysis of Data from Retrospective Studies of Disease. *Journal of the National Cancer Institute*, 22: 719-748.
- Masters, G.N. (1982). A Rasch Model for Partial Credit Scoring. *Psychometrika*, 47: 149-174.
- Miller, E. G., Ourania, R., & Twing, J. S. (2004). Evaluation of the 0.3 Logits Screening Criterion in Common Item Equating. *Journal of Applied Measurement*, 5: 172-177.
- Rasch, G. (1960). *Probabilistic Models for Some Intelligence and Attainment Tests*. Copenhagen, Denmark: Danmarks Paedagogiske Institut.
- Swaminathan, H., & Rogers, J. (1990). Detecting Differential Item Functioning Using Logistic Regression Procedures. *Journal of Educational Measurement*, 27: 361-370.
- Zieky, M. (1993). Practical Questions in the Use of DIF Statistics in Test Development. In P. W. Holland & H. Wainer (Eds.) *Differential Item Functioning* (pp. 337-348). Hillsdale, NJ: Lawrence Erlbaum Associates.
- Zumbo, B. D. (1999). *A Handbook on the Theory and Methods of Differential Item Functioning (DIF): Logistic Regression Modeling as a Unitary Framework for Binary and Likert-Type (ordinal) Item Scores*. Ottawa, ON: Directorate of Human Resources Research and Evaluation, Department of National Defense.
- Zwick, R., Donoghue, J. R., & Grima, A. (1993). Assessment of Differential Item Functioning for Performance Tasks. *Journal of Educational Measurement*, 26: 44-66.
- Wright, B. D., & Linacre, J. M. (1994). Reasonable Mean-Square Fit Values. *Rasch Measurement Transactions*, 8: 370.

## Appendix A. AZELLA REASSESSMENT CTT STATISTICS

The CTT statistics including the number of students (N-Count), P-value, point-biserial correlation between an item and Total Combined raw score (Pbis Total), and point-biserial correlation between an item and its respective domain (Pbis Domain) for EL students for the Spring 2017 Reassessment are summarized by domain in the tables.

**Table A.1. Item-Level Statistics for Items in Reading on Stage I**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
15	MC	1	12566	0.649	0.399	0.456
16	MC	1	12566	0.774	0.529	0.524
17	MC	1	12566	0.774	0.545	0.539
18	MC	1	12566	0.825	0.418	0.414
19	MC	1	12566	0.673	0.264	0.350
20	MC	1	12566	0.690	0.332	0.404
21	MC	1	12566	0.572	0.496	0.566
22	MC	1	12566	0.648	0.437	0.520
23	MC	1	12566	0.652	0.434	0.514
24	MC	1	12566	0.487	0.363	0.444
25	MC	1	12566	0.587	0.404	0.476
26	MC	1	12566	0.612	0.244	0.337
27	MC	1	12566	0.614	0.276	0.346
28	MC	1	12566	0.571	0.315	0.405
29	MC	1	12566	0.654	0.447	0.508
30	MC	1	12566	0.657	0.368	0.445
31	MC	1	12566	0.677	0.467	0.525
32	MC	1	12566	0.730	0.474	0.528

NOTE: MC=Multiple-choice Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.2. Item-Level Statistics for Items in Writing on Stage I**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
33	SA2	2	12566	0.605	0.501	0.598
34	SA2	2	12566	0.568	0.342	0.428
35	SA2	2	12566	0.39	0.661	0.784
36	SA2	2	12566	0.529	0.635	0.718
37	SA2	2	12566	0.396	0.665	0.792
38	SA1	1	12566	0.643	0.334	0.374
39	SA1	1	12566	0.489	0.360	0.415
40	SA3	3	12566	0.292	0.664	0.810
41	SA3	3	12566	0.361	0.689	0.832

NOTE: SA1=1 Point Short Answer Item, SA2=2 Point Short Answer Item, SA3=3 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.3. Item-Level Statistics for Items in Listening on Stage I**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
1	MC	1	12566	0.797	0.301	0.368
2	MC	1	12566	0.770	0.344	0.412
3	MC	1	12566	0.700	0.323	0.386
4	MC	1	12566	0.823	0.330	0.416
5	MC	1	12566	0.651	0.372	0.488
6	MC	1	12566	0.664	0.440	0.557
7	MC	1	12566	0.749	0.310	0.416
8	MC	1	12566	0.718	0.484	0.576
9	MC	1	12566	0.768	0.474	0.572
10	MC	1	12566	0.776	0.381	0.469
11	MC	1	12566	0.782	0.420	0.514
12	MC	1	12566	0.640	0.449	0.531
13	MC	1	12566	0.632	0.432	0.536
14	MC	1	12566	0.628	0.366	0.473

NOTE: MC=Multiple-choice Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.4. Item-Level Statistics for Items in Speaking on Stage I**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
42	SA1	1	12566	0.759	0.231	0.384
43	SA1	1	12566	0.943	0.197	0.336
44	SA1	1	12566	0.663	0.366	0.409
45	SA1	1	12566	0.230	0.336	0.376
46	SA2	2	12566	0.728	0.414	0.684
47	SA2	2	12566	0.756	0.423	0.690
48	SA2	2	12566	0.568	0.453	0.671
49	SA4	4	12566	0.686	0.571	0.761

NOTE: SA1=1 Point Short Answer Item, SA2=2 Point Short Answer Item, SA4=4 Point Short Answer; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.5. Item-Level Statistics for Items in Reading on Stage II**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
15	MC	1	18140	0.709	0.331	0.332
16	MC	1	18140	0.729	0.352	0.362
17	MC	1	18140	0.516	0.379	0.388
18	MC	1	18140	0.741	0.348	0.365
19	MC	1	18140	0.683	0.501	0.513
20	MC	1	18140	0.590	0.376	0.417
21	MC	1	18140	0.403	0.365	0.402
22	MC	1	18140	0.601	0.323	0.349
23	MC	1	18140	0.509	0.461	0.494
24	MC	1	18140	0.447	0.516	0.565
25	MC	1	18140	0.502	0.311	0.361
26	MC	1	18140	0.500	0.467	0.517
27	MC	1	18140	0.554	0.397	0.455
28	MC	1	18140	0.467	0.461	0.515
29	MC	1	18140	0.521	0.312	0.361
30	MC	1	18140	0.587	0.459	0.519
31	MC	1	18140	0.510	0.463	0.529
32	MC	1	18140	0.427	0.339	0.406
33	MC	1	18140	0.446	0.241	0.299
34	MC	1	18140	0.581	0.404	0.451
50	SA1	1	18140	0.645	0.309	0.327
51	SA1	1	18140	0.525	0.343	0.348
52	SA3	3	18140	0.329	0.625	0.682

NOTE: MC=Multiple-choice Item, SA1=1 Point Short Answer Item, SA3=3 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis

**Table A.6. Item-Level Statistics for Items in Writing on Stage II**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
35	MC	1	18140	0.729	0.527	0.578
36	MC	1	18140	0.558	0.380	0.450
37	MC	1	18140	0.388	0.279	0.342
38	MC	1	18140	0.518	0.328	0.391
39	MC	1	18140	0.636	0.333	0.385
40	MC	1	18140	0.745	0.488	0.531
41	MC	1	18140	0.482	0.436	0.491
42	MC	1	18140	0.484	0.333	0.403
43	MC	1	18140	0.566	0.400	0.453
44	MC	1	18140	0.468	0.430	0.466
45	MC	1	18140	0.558	0.340	0.411
46	MC	1	18140	0.410	0.270	0.340
47	MC	1	18140	0.470	0.322	0.387
48	ER	3	18140	0.572	0.693	0.763
49	ER	3	18140	0.598	0.679	0.746

NOTE: MC=Multiple-choice Item, ER=Extended Response Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.7. Item-Level Statistics for Items in Listening on Stage II**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
1	MC	1	18140	0.581	0.317	0.466
2	MC	1	18140	0.599	0.350	0.479
3	MC	1	18140	0.473	0.386	0.506
4	MC	1	18140	0.446	0.344	0.476
5	MC	1	18140	0.424	0.366	0.500
6	MC	1	18140	0.392	0.319	0.455
7	MC	1	18140	0.771	0.271	0.391
8	MC	1	18140	0.655	0.415	0.504
9	MC	1	18140	0.730	0.291	0.390
10	MC	1	18140	0.829	0.300	0.383
11	MC	1	18140	0.709	0.413	0.489
12	MC	1	18140	0.716	0.321	0.424
13	MC	1	18140	0.721	0.274	0.387
14	MC	1	18140	0.414	0.406	0.446

NOTE: MC=Multiple-choice Item, Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.8. Item-Level Statistics for Items in Speaking on Stage II**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
53	SA4	4	18140	0.740	0.430	0.686
54	SA4	4	18140	0.846	0.435	0.699
55	SA4	4	18140	0.365	0.425	0.501
56	SA4	4	18140	0.628	0.434	0.708
57	SA4	4	18140	0.617	0.466	0.698
58	SA4	4	18140	0.732	0.426	0.705
59	SA4	4	18140	0.721	0.396	0.700
60	SA4	4	18140	0.823	0.556	0.675

NOTE: SA4=4 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.9. Item-Level Statistics for Items in Reading on Stage III**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
15	MC	1	22847	0.720	0.283	0.330
16	MC	1	22847	0.531	0.426	0.445
17	MC	1	22847	0.729	0.377	0.402
18	MC	1	22847	0.523	0.418	0.444
19	MC	1	22847	0.702	0.487	0.492
20	MC	1	22847	0.482	0.321	0.375
21	MC	1	22847	0.348	0.309	0.361
22	MC	1	22847	0.383	0.286	0.341
23	MC	1	22847	0.353	0.247	0.308
24	MC	1	22847	0.576	0.473	0.512
25	MC	1	22847	0.454	0.416	0.468
26	MC	1	22847	0.634	0.474	0.499
27	MC	1	22847	0.379	0.316	0.368
28	MC	1	22847	0.458	0.306	0.361
29	MC	1	22847	0.350	0.214	0.273
30	MC	1	22847	0.335	0.301	0.361
31	MC	1	22847	0.373	0.308	0.389
32	MC	1	22847	0.367	0.296	0.372
33	MC	1	22847	0.351	0.290	0.343
34	MC	1	22847	0.485	0.422	0.483
35	MC	1	22847	0.445	0.374	0.447
36	MC	1	22847	0.472	0.319	0.385
37	MC	1	22847	0.653	0.454	0.474
56	SA1	1	22847	0.607	0.253	0.248
57	SA1	1	22847	0.375	0.407	0.433
58	SA1	1	22847	0.386	0.443	0.460

NOTE: MC=Multiple-choice Item, SA1=1 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.10. Item-Level Statistics for Items in Writing on Stage III**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
38	MC	1	22847	0.396	0.344	0.394
39	MC	1	22847	0.489	0.275	0.336
40	MC	1	22847	0.483	0.376	0.436
41	MC	1	22847	0.425	0.302	0.368
42	MC	1	22847	0.474	0.308	0.375
43	MC	1	22847	0.641	0.404	0.481
44	MC	1	22847	0.617	0.493	0.551
45	MC	1	22847	0.737	0.416	0.470
46	MC	1	22847	0.762	0.511	0.557
47	MC	1	22847	0.543	0.489	0.524
48	MC	1	22847	0.504	0.326	0.373
49	MC	1	22847	0.771	0.427	0.499
50	MC	1	22847	0.573	0.421	0.490
51	MC	1	22847	0.639	0.473	0.537
52	MC	1	22847	0.577	0.483	0.521
53	MC	1	22847	0.574	0.418	0.474
54	ER	5	22847	0.505	0.689	0.725
55	ER	5	22847	0.514	0.655	0.706

NOTE: MC=Multiple-choice Item, ER=Extended Response Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.11. Item-Level Statistics for Items in Listening on Stage III**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
1	MC	1	22847	0.706	0.299	0.367
2	MC	1	22847	0.639	0.325	0.408
3	MC	1	22847	0.308	0.149	0.288
4	MC	1	22847	0.725	0.301	0.409
5	MC	1	22847	0.636	0.363	0.463
6	MC	1	22847	0.368	0.226	0.365
7	MC	1	22847	0.317	0.277	0.399
8	MC	1	22847	0.543	0.360	0.466
9	MC	1	22847	0.655	0.243	0.358
10	MC	1	22847	0.529	0.420	0.490
11	MC	1	22847	0.423	0.303	0.416
12	MC	1	22847	0.712	0.352	0.444
13	MC	1	22847	0.549	0.417	0.505
14	MC	1	22847	0.507	0.313	0.438

NOTE: MC=Multiple-choice Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.12. Item-Level Statistics for Items in Speaking on Stage III**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
59	SA4	4	22847	0.666	0.523	0.649
60	SA4	4	22847	0.955	0.377	0.617
61	SA4	4	22847	0.783	0.544	0.690
62	SA4	4	22847	0.871	0.530	0.759
63	SA4	4	22847	0.834	0.489	0.733
64	SA4	4	22847	0.797	0.422	0.672
65	SA4	4	22847	0.796	0.459	0.732
66	SA4	4	22847	0.851	0.579	0.727

NOTE: SA4=4 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.13. Item-Level Statistics for Items in Reading on Stage IV**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
15	MC	1	11899	0.607	0.371	0.405
16	MC	1	11899	0.553	0.322	0.343
17	MC	1	11899	0.801	0.471	0.426
18	MC	1	11899	0.830	0.503	0.462
19	MC	1	11899	0.863	0.548	0.477
20	MC	1	11899	0.632	0.441	0.477
21	MC	1	11899	0.608	0.489	0.529
22	MC	1	11899	0.711	0.473	0.502
23	MC	1	11899	0.460	0.325	0.382
24	MC	1	11899	0.459	0.269	0.320
25	MC	1	11899	0.491	0.337	0.395
26	MC	1	11899	0.657	0.534	0.559
27	MC	1	11899	0.327	0.329	0.398
28	MC	1	11899	0.636	0.434	0.475
29	MC	1	11899	0.441	0.216	0.311
30	MC	1	11899	0.559	0.452	0.499
31	MC	1	11899	0.343	0.299	0.373
32	MC	1	11899	0.551	0.433	0.480
33	MC	1	11899	0.510	0.458	0.538
34	MC	1	11899	0.506	0.458	0.517
35	MC	1	11899	0.584	0.470	0.537
36	MC	1	11899	0.387	0.339	0.390
37	MC	1	11899	0.362	0.400	0.473
38	MC	1	11899	0.388	0.297	0.372
39	MC	1	11899	0.590	0.388	0.445
40	MC	1	11899	0.362	0.331	0.414
61	SA1	1	11899	0.351	0.359	0.372
62	SA1	1	11899	0.266	0.358	0.365

NOTE: MC=Multiple-choice Item, SA1=1 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.14. Item-Level Statistics for Items in Writing on Stage IV**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
41	MC	1	11899	0.636	0.323	0.383
42	MC	1	11899	0.460	0.366	0.429
43	MC	1	11899	0.511	0.412	0.474
44	MC	1	11899	0.487	0.323	0.368
45	MC	1	11899	0.446	0.404	0.458
46	MC	1	11899	0.656	0.445	0.492
47	MC	1	11899	0.636	0.384	0.450
48	MC	1	11899	0.493	0.330	0.362
49	MC	1	11899	0.378	0.257	0.315
50	MC	1	11899	0.703	0.517	0.568
51	MC	1	11899	0.386	0.258	0.316
52	MC	1	11899	0.649	0.477	0.521
53	MC	1	11899	0.613	0.464	0.513
54	MC	1	11899	0.681	0.488	0.528
55	MC	1	11899	0.588	0.318	0.370
56	MC	1	11899	0.621	0.465	0.515
57	MC	1	11899	0.407	0.272	0.308
58	MC	1	11899	0.365	0.289	0.327
59	ER	5	11899	0.391	0.685	0.729
60	ER	5	11899	0.428	0.667	0.722

NOTE: MC=Multiple-choice Item, ER=Extended Response Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.15. Item-Level Statistics for Items in Listening on Stage IV**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
1	MC	1	11899	0.710	0.410	0.484
2	MC	1	11899	0.741	0.394	0.455
3	MC	1	11899	0.731	0.447	0.503
4	MC	1	11899	0.534	0.291	0.413
5	MC	1	11899	0.400	0.244	0.356
6	MC	1	11899	0.576	0.377	0.477
7	MC	1	11899	0.662	0.412	0.506
8	MC	1	11899	0.371	0.226	0.354
9	MC	1	11899	0.331	0.286	0.395
10	MC	1	11899	0.608	0.331	0.435
11	MC	1	11899	0.556	0.351	0.446
12	MC	1	11899	0.566	0.327	0.439
13	MC	1	11899	0.646	0.397	0.505
14	MC	1	11899	0.367	0.325	0.422

NOTE: MC=Multiple-choice Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.16. Item-Level Statistics for Items in Speaking on Stage IV**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
63	SA4	4	11899	0.854	0.497	0.700
64	SA4	4	11899	0.646	0.521	0.718
65	SA4	4	11899	0.823	0.559	0.747
66	SA4	4	11899	0.649	0.582	0.763
67	SA4	4	11899	0.791	0.556	0.809
68	SA4	4	11899	0.632	0.476	0.706
69	SA4	4	11899	0.746	0.551	0.809
70	SA4	4	11899	0.721	0.622	0.767

NOTE: SA4=4 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.17. Item-Level Statistics for Items in Reading on Stage V**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
15	MC	1	7668	0.766	0.400	0.408
16	MC	1	7668	0.785	0.378	0.395
17	MC	1	7668	0.727	0.525	0.478
18	MC	1	7668	0.434	0.289	0.332
19	MC	1	7668	0.618	0.421	0.310
20	MC	1	7668	0.902	0.408	0.369
21	MC	1	7668	0.588	0.392	0.452
22	MC	1	7668	0.479	0.314	0.372
23	MC	1	7668	0.429	0.354	0.416
24	MC	1	7668	0.530	0.297	0.362
25	MC	1	7668	0.679	0.451	0.491
26	MC	1	7668	0.571	0.388	0.444
27	MC	1	7668	0.548	0.310	0.387
28	MC	1	7668	0.497	0.341	0.408
29	MC	1	7668	0.393	0.303	0.386
30	MC	1	7668	0.542	0.353	0.425
31	MC	1	7668	0.422	0.337	0.401
32	MC	1	7668	0.714	0.442	0.473
33	MC	1	7668	0.580	0.504	0.540
34	MC	1	7668	0.767	0.419	0.445
35	MC	1	7668	0.421	0.270	0.352
36	MC	1	7668	0.360	0.318	0.392
37	MC	1	7668	0.419	0.298	0.370
38	MC	1	7668	0.276	0.323	0.410
39	MC	1	7668	0.373	0.213	0.312
40	MC	1	7668	0.456	0.291	0.365
41	MC	1	7668	0.547	0.405	0.464
42	MC	1	7668	0.265	0.252	0.330

NOTE: MC=Multiple-choice Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.18. Item-Level Statistics for Items in Writing on Stage V**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
43	MC	1	7668	0.521	0.357	0.401
44	MC	1	7668	0.379	0.231	0.297
45	MC	1	7668	0.855	0.300	0.337
46	MC	1	7668	0.509	0.374	0.407
47	MC	1	7668	0.301	0.293	0.348
48	MC	1	7668	0.698	0.462	0.487
49	MC	1	7668	0.368	0.296	0.347
50	MC	1	7668	0.547	0.296	0.353
51	MC	1	7668	0.409	0.280	0.349
52	MC	1	7668	0.282	0.227	0.290
53	MC	1	7668	0.593	0.505	0.545
54	MC	1	7668	0.573	0.461	0.494
55	MC	1	7668	0.443	0.431	0.465
56	MC	1	7668	0.482	0.311	0.345
57	MC	1	7668	0.591	0.372	0.408
58	MC	1	7668	0.681	0.505	0.530
59	MC	1	7668	0.421	0.269	0.310
60	MC	1	7668	0.380	0.279	0.326
61	ER	5	7668	0.384	0.726	0.757
62	ER	5	7668	0.428	0.673	0.711

NOTE: MC=Multiple-choice Item, ER=Extended Response Item, item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.19. Item-Level Statistics for Items in Listening on Stage V**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
1	MC	1	7668	0.862	0.467	0.435
2	MC	1	7668	0.706	0.325	0.427
3	MC	1	7668	0.629	0.374	0.464
4	MC	1	7668	0.523	0.313	0.428
5	MC	1	7668	0.628	0.397	0.487
6	MC	1	7668	0.346	0.247	0.341
7	MC	1	7668	0.547	0.467	0.585
8	MC	1	7668	0.485	0.318	0.431
9	MC	1	7668	0.462	0.338	0.456
10	MC	1	7668	0.424	0.192	0.305
11	MC	1	7668	0.426	0.368	0.418
12	MC	1	7668	0.438	0.388	0.453
13	MC	1	7668	0.594	0.476	0.570
14	MC	1	7668	0.536	0.353	0.457

NOTE: MC=Multiple-choice Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.20. Item-Level Statistics for Items in Speaking on Stage V**

Item Number	Item Type	Max	N-Count	P-value	Pbis Total	Pbis Domain
63	SA4	4	7668	0.713	0.528	0.721
64	SA4	4	7668	0.637	0.534	0.742
65	SA4	4	7668	0.621	0.556	0.775
66	SA4	4	7668	0.675	0.545	0.769
67	SA4	4	7668	0.676	0.538	0.775
68	SA4	4	7668	0.457	0.568	0.738
69	SA4	4	7668	0.666	0.475	0.735
70	SA4	4	7668	0.639	0.648	0.820

NOTE: SA4=4 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

Table A.21 through table A.34 show the percentages of students who selected a correct response option and incorrect response options as well as a point-biserial correlation associated with each option.

**Table A.21. Distractor Analysis of Multiple Choice Items in Reading on Stage I**

Item Number	Correct Option		Distractor 1		Distractor 2		% Omit
	%	PtBis	%	PtBis	%	PtBis	
15	64.91	0.46	18.23	-0.31	15.02	-0.22	1.84
16	77.42	0.52	5.83	-0.31	16.03	-0.38	0.73
17	77.42	0.54	6.01	-0.31	16.00	-0.39	0.57
18	82.48	0.41	10.38	-0.31	6.14	-0.21	1.00
19	67.25	0.35	9.54	-0.27	22.45	-0.19	0.76
20	69.04	0.40	13.14	-0.22	17.01	-0.27	0.81
21	57.24	0.57	24.58	-0.40	17.44	-0.26	0.73
22	64.78	0.52	14.49	-0.29	19.86	-0.34	0.87
23	65.25	0.51	16.11	-0.27	17.89	-0.35	0.76
24	48.70	0.44	27.77	-0.33	22.75	-0.16	0.78
25	58.73	0.48	23.22	-0.39	16.28	-0.14	1.77
26	61.20	0.34	28.04	-0.21	9.40	-0.19	1.37
27	61.40	0.35	10.97	-0.21	25.50	-0.18	2.12
28	57.06	0.40	34.27	-0.29	7.59	-0.19	1.08
29	65.41	0.51	12.60	-0.26	19.93	-0.34	2.06
30	65.72	0.45	22.31	-0.28	10.63	-0.25	1.34
31	67.71	0.53	18.89	-0.34	11.72	-0.30	1.68
32	73.04	0.53	15.82	-0.37	9.30	-0.26	1.84

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.22. Distractor Analysis of Multiple Choice Items in Listening on Stage I**

Item Number	Correct Option		Distractor 1		Distractor 2		% Omit
	%	PtBis	%	PtBis	%	PtBis	
1	79.68	0.37	6.76	-0.27	12.26	-0.19	1.3
2	76.99	0.41	10.85	-0.30	10.85	-0.21	1.3
3	69.99	0.39	21.37	-0.24	7.20	-0.23	1.44
4	82.27	0.42	10.23	-0.27	6.63	-0.25	0.88
5	65.06	0.49	18.88	-0.37	14.85	-0.20	1.2
6	66.44	0.56	26.52	-0.45	6.17	-0.21	0.87
7	74.92	0.42	13.35	-0.29	10.55	-0.21	1.18
8	71.80	0.58	10.57	-0.39	16.55	-0.34	1.07
9	76.76	0.57	12.88	-0.39	9.25	-0.32	1.11
10	77.61	0.47	11.03	-0.39	10.31	-0.18	1.06
11	78.20	0.51	14.13	-0.35	6.54	-0.30	1.13
12	63.99	0.53	15.72	-0.32	19.56	-0.32	0.72
13	63.16	0.54	15.08	-0.29	20.96	-0.34	0.8
14	62.76	0.47	17.13	-0.31	19.44	-0.26	0.68

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.23. Distractor Analysis of Multiple Choice Items in Reading on Stage II**

Item Number	Correct Option		Distractor 1		Distractor 2		% Omit
	%	PtBis	%	PtBis	%	PtBis	
15	70.94	0.33	14.74	-0.18	13.76	-0.23	0.56
16	72.94	0.36	22.76	-0.3	4.02	-0.17	0.28
17	51.62	0.39	19.58	-0.27	28.43	-0.18	0.37
18	74.08	0.37	16.96	-0.23	8.59	-0.25	0.37
19	68.29	0.51	18.10	-0.37	13.00	-0.27	0.61
20	58.96	0.42	20.90	-0.27	19.45	-0.23	0.68
21	40.33	0.40	31.70	-0.37	27.62	-0.05	0.36
22	60.10	0.35	26.44	-0.19	12.95	-0.25	0.50
23	50.94	0.49	23.58	-0.39	24.83	-0.18	0.66
24	44.69	0.56	31.79	-0.28	22.91	-0.35	0.62
25	50.24	0.36	18.95	-0.29	29.99	-0.13	0.83
26	49.97	0.52	25.69	-0.3	23.79	-0.28	0.55
27	55.42	0.46	22.27	-0.23	21.62	-0.30	0.69
28	46.75	0.51	23.50	-0.18	29.07	-0.38	0.68
29	52.08	0.36	15.47	-0.27	31.63	-0.17	0.82
30	58.67	0.52	22.14	-0.42	18.58	-0.19	0.61
31	51.01	0.53	19.01	-0.3	29.24	-0.31	0.73
32	42.69	0.41	20.96	-0.14	35.50	-0.28	0.84
33	44.56	0.30	27.91	-0.34	26.70	0.03	0.83
34	58.09	0.45	17.82	-0.27	23.19	-0.26	0.89

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.24. Distractor Analysis of Multiple Choice Items in Writing on Stage II**

Item Number	Correct Option		Distractor 1		Distractor 2		% Omit
	%	PtBis	%	PtBis	%	PtBis	
35	72.90	0.58	13.77	-0.35	13.05	-0.40	0.28
36	55.78	0.45	26.13	-0.32	17.83	-0.21	0.26
37	38.83	0.34	26.10	-0.25	34.67	-0.11	0.41
38	51.84	0.39	25.07	-0.29	22.79	-0.16	0.31
39	63.55	0.38	10.61	-0.35	25.45	-0.17	0.39
40	74.49	0.53	13.45	-0.35	11.58	-0.34	0.49
41	48.25	0.49	32.25	-0.28	19.21	-0.28	0.29
42	48.40	0.40	32.99	-0.16	18.19	-0.31	0.42
43	56.59	0.45	25.63	-0.26	17.32	-0.28	0.47
44	46.79	0.47	31.53	-0.26	21.33	-0.27	0.36
45	55.77	0.41	21.53	-0.24	22.21	-0.24	0.49
46	41.04	0.34	41.54	-0.20	17.08	-0.18	0.35
47	46.96	0.39	34.99	-0.22	17.54	-0.22	0.51

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.25. Distractor Analysis of Multiple Choice Items in Listening on Stage II**

Item Number	Correct Option		Distractor 1		Distractor 2		% Omit
	%	PtBis	%	PtBis	%	PtBis	
1	58.11	0.47	31.16	-0.34	10.01	-0.21	0.72
2	59.87	0.48	24.76	-0.28	14.54	-0.30	0.83
3	47.34	0.51	22.72	-0.32	28.8	-0.24	1.14
4	44.58	0.48	16.55	-0.21	38.4	-0.32	0.47
5	42.40	0.50	39.76	-0.39	17.38	-0.14	0.46
6	39.22	0.45	8.36	-0.17	52.04	-0.34	0.38
7	77.13	0.39	17.06	-0.31	5.56	-0.19	0.24
8	65.51	0.05	23.15	-0.39	11.00	-0.22	0.34
9	72.98	0.39	14.67	-0.23	11.93	-0.27	0.41
10	82.94	0.38	10.13	-0.29	6.57	-0.21	0.36
11	70.92	0.49	16.89	-0.32	11.96	-0.31	0.23
12	71.58	0.42	11.68	-0.32	16.47	-0.23	0.27
13	72.12	0.39	8.84	-0.23	18.74	-0.27	0.31
14	41.45	0.45	17.11	-0.21	40.77	-0.27	0.67

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.26. Distractor Analysis of Multiple Choice Items in Reading on Stage III**

Item Number	Correct Option		Distractor 1		Distractor 2		Distractor 3		% Omit
	%	PtBis	%	PtBis	%	PtBis	%	PtBis	
15	71.95	0.33	9.68	-0.21	13.45	-0.18	4.59	-0.09	0.33
16	53.09	0.44	9.98	-0.17	4.60	-0.16	32.18	-0.29	0.15
17	72.91	0.40	11.68	-0.16	6.01	-0.19	9.19	-0.28	0.21
18	52.32	0.44	11.43	-0.27	8.57	-0.16	27.37	-0.20	0.31
19	70.18	0.49	9.95	-0.28	9.71	-0.24	9.81	-0.23	0.34
20	48.22	0.38	16.71	-0.16	13.19	-0.14	21.21	-0.19	0.67
21	34.76	0.36	25.36	-0.22	30.57	-0.08	9.11	-0.13	0.20
22	38.28	0.34	20.4	-0.30	19.25	-0.08	21.83	-0.02	0.25
23	35.28	0.31	19.85	-0.12	24.27	-0.10	20.02	-0.13	0.59
24	57.59	0.51	10.93	-0.23	15.07	-0.27	16.20	-0.21	0.21
25	45.44	0.47	20.44	-0.19	16.97	-0.32	16.71	-0.08	0.43
26	63.40	0.50	10.50	-0.25	8.60	-0.24	16.82	-0.24	0.68
27	37.88	0.37	19.29	-0.10	16.68	-0.16	25.88	-0.17	0.28
28	45.82	0.36	16.40	-0.19	11.26	-0.23	25.90	-0.07	0.61
29	35.03	0.27	26.67	-0.18	24.58	-0.04	13.28	-0.09	0.43
30	33.51	0.36	6.88	-0.16	41.14	-0.02	17.72	-0.29	0.76
31	37.31	0.39	28.26	-0.18	17.39	-0.15	16.68	-0.12	0.35
32	36.75	0.37	22.44	-0.13	19.26	-0.12	21.11	-0.17	0.45
33	35.15	0.34	27.25	-0.19	16.36	-0.17	20.64	-0.02	0.6
34	48.51	0.48	14.74	-0.18	15.71	-0.22	20.08	-0.23	0.96
35	44.49	0.45	19.14	-0.23	16.49	-0.18	19.48	-0.16	0.39
36	47.24	0.38	14.47	-0.22	13.84	-0.22	23.96	-0.08	0.48
37	65.35	0.47	7.90	-0.25	16.64	-0.22	9.69	-0.25	0.43

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.27. Distractor Analysis of Multiple Choice Items in Writing on Stage III**

Item Number	Correct Option		Distractor 1		Distractor 2		Distractor 3		% Omit
	%	PtBis	%	PtBis	%	PtBis	%	PtBis	
38	39.59	0.39	20.02	-0.08	36.50	-0.24	3.77	-0.21	0.13
39	48.89	0.34	15.53	-0.14	25.65	-0.05	9.28	-0.30	0.65
40	48.34	0.44	23.51	-0.13	13.57	-0.25	14.13	-0.21	0.45
41	42.50	0.37	13.45	-0.27	15.79	-0.17	27.62	-0.05	0.64
42	47.43	0.37	15.05	-0.28	26.65	-0.06	10.62	-0.19	0.25
43	64.01	0.48	7.91	-0.29	17.63	-0.18	10.04	-0.27	0.33
44	61.74	0.55	14.35	-0.23	12.33	-0.26	10.61	-0.30	0.97
45	73.73	0.47	10.19	-0.22	8.92	-0.23	6.96	-0.27	0.21
46	76.16	0.56	7.38	-0.26	12.43	-0.36	3.70	-0.25	0.33
47	54.31	0.52	6.15	-0.23	28.56	-0.30	10.45	-0.21	0.53
48	50.43	0.37	18.76	-0.19	17.10	-0.19	13.48	-0.12	0.23
49	77.08	0.50	6.14	-0.30	9.28	-0.23	7.12	-0.26	0.39
50	57.33	0.49	8.29	-0.30	10.54	-0.21	22.99	-0.21	0.86
51	63.95	0.54	13.93	-0.25	11.00	-0.26	10.43	-0.26	0.69
52	57.68	0.52	18.60	-0.29	14.24	-0.18	9.16	-0.28	0.32
53	57.36	0.47	17.25	-0.22	8.34	-0.30	16.63	-0.17	0.41

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.28. Distractor Analysis of Multiple Choice Items in Listening on Stage III**

Item Number	Correct Option		Distractor 1		Distractor 2		Distractor 3		% Omit
	%	PtBis	%	PtBis	%	PtBis	%	PtBis	
1	70.64	0.37	9.64	-0.23	9.32	-0.20	10.15	-0.13	0.25
2	63.88	0.41	14.74	-0.19	13.18	-0.25	7.76	-0.16	0.44
3	30.77	0.29	21.05	-0.06	4.31	-0.13	43.39	-0.16	0.48
4	72.46	0.41	10.17	-0.23	5.08	-0.17	12.10	-0.22	0.19
5	63.57	0.46	8.38	-0.23	9.04	-0.24	18.44	-0.22	0.57
6	36.76	0.37	19.34	-0.05	34.01	-0.23	9.69	-0.14	0.20
7	31.73	0.40	16.50	-0.20	28.04	-0.07	23.56	-0.18	0.16
8	54.32	0.47	12.54	-0.26	12.28	-0.25	20.59	-0.15	0.26
9	65.55	0.36	9.44	-0.19	13.28	-0.19	11.52	-0.15	0.21
10	52.94	0.49	16.38	-0.17	14.72	-0.21	15.69	-0.29	0.27
11	42.29	0.42	17.21	-0.22	29.95	-0.15	9.94	-0.17	0.60
12	71.23	0.44	8.10	-0.26	8.22	-0.21	12.28	-0.21	0.17
13	54.90	0.50	10.75	-0.23	17.56	-0.17	16.56	-0.30	0.23
14	50.75	0.44	14.53	-0.26	19.97	-0.17	14.44	-0.16	0.32

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.29. Distractor Analysis of Multiple Choice Items in Reading on Stage IV**

Item Number	Correct Option		Distractor 1		Distractor 2		Distractor 3		% Omit
	%	PtBis	%	PtBis	%	PtBis	%	PtBis	
15	60.73	0.40	18.62	-0.23	15.47	-0.21	4.92	-0.14	0.27
16	55.27	0.34	20.14	-0.18	10.63	-0.12	13.68	-0.18	0.27
17	80.13	0.43	13.98	-0.28	3.40	-0.23	2.38	-0.19	0.11
18	83.05	0.46	7.50	-0.23	4.92	-0.26	4.40	-0.26	0.12
19	86.28	0.48	5.96	-0.32	3.77	-0.24	3.82	-0.21	0.17
20	63.23	0.48	14.3	-0.28	9.70	-0.21	12.61	-0.20	0.15
21	60.81	0.53	12.43	-0.23	10.40	-0.25	16.19	-0.28	0.16
22	71.08	0.50	8.08	-0.22	7.83	-0.27	12.70	-0.28	0.30
23	46.00	0.38	16.03	-0.19	26.2	-0.14	11.24	-0.18	0.51
24	45.87	0.32	19.86	-0.11	24.26	-0.17	9.82	-0.14	0.19
25	49.08	0.40	20.75	-0.18	17.15	-0.21	12.77	-0.14	0.25
26	65.72	0.56	16.18	-0.34	9.14	-0.23	8.51	-0.25	0.45
27	32.73	0.40	18.21	-0.16	26.09	-0.09	22.38	-0.19	0.58
28	63.58	0.47	10.81	-0.28	18.46	-0.22	7.03	-0.22	0.13
29	44.14	0.31	6.18	-0.25	6.84	-0.22	42.68	-0.07	0.16
30	55.90	0.50	13.63	-0.19	17.35	-0.31	12.8	-0.18	0.32
31	34.31	0.37	36.85	-0.12	11.12	-0.15	17.39	-0.18	0.34
32	55.09	0.48	22.14	-0.14	16.76	-0.34	5.89	-0.23	0.13
33	50.98	0.54	12.29	-0.26	23.73	-0.25	12.81	-0.22	0.19
34	50.56	0.52	24.63	-0.19	10.71	-0.28	13.72	-0.25	0.38
35	58.40	0.54	10.46	-0.26	11.60	-0.28	19.00	-0.23	0.54
36	38.73	0.39	21.18	-0.17	17.04	-0.09	22.84	-0.20	0.20
37	36.23	0.47	27.98	-0.22	15.14	-0.16	20.31	-0.18	0.34
38	38.82	0.37	14.98	-0.12	22.13	-0.21	23.40	-0.10	0.67
39	59.02	0.44	13.05	-0.20	19.23	-0.28	8.48	-0.14	0.22
40	36.20	0.41	18.57	-0.09	16.89	-0.27	27.89	-0.13	0.44

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.30. Distractor Analysis of Multiple Choice Items in Writing on Stage IV**

Item Number	Correct Option		Distractor 1		Distractor 2		Distractor 3		% Omit
	%	PtBis	%	PtBis	%	PtBis	%	PtBis	
41	63.55	0.38	9.06	-0.22	3.53	-0.22	23.72	-0.18	0.14
42	46.03	0.43	25.22	-0.14	20.82	-0.22	7.79	-0.23	0.14
43	51.11	0.47	16.67	-0.22	14.81	-0.32	17.14	-0.09	0.28
44	48.69	0.37	15.72	-0.17	22.07	-0.16	13.05	-0.16	0.46
45	44.61	0.46	12.53	-0.29	11.94	-0.14	30.79	-0.18	0.13
46	65.57	0.49	18.72	-0.22	8.68	-0.26	6.77	-0.29	0.27
47	63.60	0.45	16.09	-0.14	9.01	-0.31	10.84	-0.23	0.46
48	49.34	0.36	16.65	-0.18	18.84	-0.18	15.01	-0.11	0.16
49	37.77	0.31	19.77	-0.10	22.89	-0.11	19.37	-0.16	0.20
50	70.27	0.57	8.55	-0.29	8.58	-0.32	12.34	-0.26	0.27
51	38.60	0.32	17.22	-0.28	37.92	0.02	5.92	-0.23	0.34
52	64.88	0.52	6.04	-0.25	17.30	-0.24	11.06	-0.30	0.37
53	61.32	0.51	12.48	-0.29	12.51	-0.18	13.13	-0.26	0.56
54	68.13	0.53	15.04	-0.32	6.50	-0.24	10.11	-0.24	0.21
55	58.83	0.37	13.59	-0.22	10.30	-0.14	17.05	-0.17	0.23
56	62.10	0.52	11.75	-0.22	15.93	-0.29	9.97	-0.23	0.25
57	40.66	0.31	19.69	-0.13	19.43	-0.19	19.87	-0.05	0.35
58	36.48	0.33	31.26	-0.12	16.79	-0.15	15.06	-0.12	0.40

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.31. Distractor Analysis of Multiple Choice Items in Listening on Stage IV**

Item Number	Correct Option		Distractor 1		Distractor 2		Distractor 3		% Omit
	%	PtBis	%	PtBis	%	PtBis	%	PtBis	
1	71.02	0.48	13.93	-0.33	8.34	-0.19	6.56	-0.20	0.15
2	74.07	0.45	12.36	-0.27	2.98	-0.16	10.23	-0.27	0.37
3	73.09	0.50	5.95	-0.26	6.21	-0.22	14.61	-0.30	0.13
4	53.41	0.41	17.77	-0.22	19.13	-0.17	9.18	-0.17	0.52
5	40.05	0.36	25.84	0.00	16.47	-0.22	17.47	-0.24	0.17
6	57.56	0.48	8.81	-0.22	12.77	-0.21	20.48	-0.25	0.38
7	66.17	0.51	13.88	-0.26	10.95	-0.28	8.87	-0.21	0.13
8	37.08	0.35	17.81	-0.20	25.99	-0.10	18.84	-0.13	0.28
9	33.10	0.40	13.49	-0.23	25.25	-0.21	27.64	-0.03	0.52
10	60.84	0.44	5.08	-0.19	18.88	-0.19	15.07	-0.27	0.13
11	55.55	0.45	26.14	-0.17	10.13	-0.24	7.94	-0.26	0.24
12	56.56	0.44	16.13	-0.24	17.32	-0.24	9.85	-0.12	0.14
13	64.63	0.51	16.99	-0.23	9.19	-0.29	9.07	-0.24	0.13
14	36.72	0.42	6.89	-0.20	11.12	-0.36	45.10	-0.07	0.17

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.32. Distractor Analysis of Multiple Choice Items in Reading on Stage V**

Item Number	Correct Option		Distractor 1		Distractor 2		Distractor 3		% Omit
	%	PtBis	%	PtBis	%	PtBis	%	PtBis	
15	76.64	0.41	7.22	-0.24	10.58	-0.22	5.41	-0.18	0.14
16	78.53	0.39	6.57	-0.21	6.69	-0.25	7.76	-0.17	0.44
17	72.68	0.48	8.40	-0.25	11.22	-0.28	7.45	-0.20	0.26
18	43.39	0.33	46.61	-0.19	5.92	-0.19	3.85	-0.13	0.23
19	61.83	0.31	19.42	-0.10	10.51	-0.16	7.81	-0.23	0.43
20	90.23	0.37	3.12	-0.22	2.46	-0.19	4.04	-0.20	0.14
21	58.75	0.45	17.19	-0.23	13.54	-0.23	10.24	-0.18	0.29
22	47.94	0.37	21.48	-0.14	16.18	-0.15	14.01	-0.20	0.39
23	42.85	0.42	24.24	-0.03	13.55	-0.26	19.01	-0.25	0.34
24	53.04	0.36	13.46	-0.16	23.58	-0.15	9.55	-0.20	0.38
25	67.87	0.49	18.99	-0.29	6.06	-0.24	6.91	-0.21	0.17
26	57.15	0.44	20.44	-0.17	9.62	-0.22	12.35	-0.26	0.44
27	54.77	0.39	11.76	-0.18	7.99	-0.23	25.14	-0.15	0.33
28	49.69	0.41	25.70	-0.24	16.43	-0.16	7.66	-0.14	0.52
29	39.32	0.39	20.02	-0.08	27.67	-0.25	12.25	-0.13	0.74
30	54.21	0.43	15.38	-0.19	17.85	-0.22	12.35	-0.16	0.21
31	42.20	0.40	20.47	-0.17	18.81	-0.12	18.28	-0.21	0.23
32	71.37	0.47	11.66	-0.31	8.76	-0.22	7.89	-0.18	0.31
33	58.05	0.54	20.28	-0.33	10.42	-0.24	10.75	-0.18	0.51
34	76.75	0.45	5.26	-0.23	6.49	-0.29	11.32	-0.20	0.18
35	42.15	0.35	20.25	-0.08	17.11	-0.24	20.28	-0.12	0.21
36	36.02	0.39	26.98	-0.23	27.53	-0.15	9.13	-0.06	0.34
37	41.91	0.37	26.23	-0.19	22.35	-0.12	9.21	-0.16	0.30
38	27.57	0.41	27.13	-0.21	29.07	-0.05	15.79	-0.18	0.44
39	37.31	0.31	18.60	-0.13	19.30	-0.13	24.47	-0.10	0.33
40	45.58	0.37	14.84	-0.13	16.54	-0.20	22.70	-0.13	0.34
41	54.68	0.46	21.57	-0.23	11.11	-0.19	12.28	-0.22	0.35
42	26.47	0.33	14.67	-0.18	29.26	-0.05	29.25	-0.12	0.34

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.33. Distractor Analysis of Multiple Choice Items in Writing on Stage V**

Item Number	Correct Option		Distractor 1		Distractor 2		Distractor 3		% Omit
	%	PtBis	%	PtBis	%	PtBis	%	PtBis	
43	52.14	0.40	28.72	-0.27	11.67	-0.19	7.04	-0.06	0.43
44	37.88	0.30	37.21	-0.05	16.54	-0.22	8.23	-0.13	0.14
45	85.51	0.34	2.46	-0.17	2.48	-0.18	9.45	-0.21	0.09
46	50.94	0.41	4.17	-0.24	25.95	-0.11	18.83	-0.27	0.10
47	30.10	0.35	28.51	0.09	20.32	-0.40	20.81	-0.10	0.26
48	69.76	0.49	19.55	-0.29	3.96	-0.23	6.43	-0.24	0.30
49	36.84	0.35	39.58	-0.18	12.53	-0.11	10.62	-0.13	0.43
50	54.71	0.35	27.90	-0.06	12.22	-0.32	4.90	-0.18	0.27
51	40.94	0.35	15.81	-0.19	28.27	-0.10	14.71	-0.14	0.27
52	28.17	0.29	19.52	-0.11	25.52	-0.15	26.51	-0.04	0.27
53	59.29	0.54	12.15	-0.28	19.41	-0.25	8.85	-0.27	0.30
54	57.29	0.49	12.72	-0.32	21.74	-0.16	7.73	-0.25	0.52
55	44.30	0.46	24.69	-0.28	16.98	-0.21	13.91	-0.09	0.12
56	48.19	0.35	6.95	-0.21	28.90	-0.12	15.70	-0.17	0.26
57	59.14	0.41	20.91	-0.26	12.69	-0.16	6.98	-0.15	0.29
58	68.10	0.53	8.28	-0.22	10.72	-0.31	12.47	-0.26	0.43
59	42.11	0.31	25.07	-0.10	16.39	-0.16	16.16	-0.14	0.27
60	37.98	0.33	16.72	-0.10	20.15	-0.13	24.84	-0.16	0.31

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table A.34. Distractor Analysis of Multiple Choice Items in Listening on Stage V**

Item Number	Correct Option		Distractor 1		Distractor 2		Distractor 3		% Omit
	%	PtBis	%	PtBis	%	PtBis	%	PtBis	
1	86.19	0.44	2.90	-0.18	4.00	-0.24	6.61	-0.28	0.30
2	70.55	0.43	4.17	-0.27	5.35	-0.22	19.61	-0.22	0.31
3	62.86	0.46	8.50	-0.27	5.53	-0.22	22.91	-0.23	0.20
4	52.33	0.43	8.27	-0.18	33.06	-0.30	6.17	-0.08	0.17
5	62.75	0.49	6.18	-0.17	8.99	-0.17	21.95	-0.35	0.13
6	34.56	0.34	13.39	-0.10	22.94	-0.16	28.70	-0.13	0.40
7	54.69	0.59	15.53	-0.23	7.98	-0.21	21.66	-0.36	0.13
8	48.50	0.43	25.23	-0.14	8.53	-0.25	17.51	-0.22	0.22
9	46.23	0.46	18.97	-0.16	23.77	-0.23	10.11	-0.19	0.91
10	42.44	0.31	27.84	0.03	16.25	-0.24	13.02	-0.21	0.46
11	42.55	0.42	10.33	-0.19	35.35	-0.16	11.38	-0.21	0.38
12	43.83	0.45	11.06	-0.17	17.58	-0.27	26.92	-0.14	0.61
13	59.40	0.57	16.90	-0.21	10.04	-0.28	13.24	-0.33	0.42
14	53.57	0.46	14.84	-0.08	12.96	-0.25	18.15	-0.28	0.47

NOTE: Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

## Appendix B. AZELLA REASSESSMENT IRT STATISTICS

The IRT statistics including Rasch, infit, and outfit statistics for the Spring 2017 Reassessment are presented in the tables below.

**Table B.1. IRT Statistics for Items in Reading on Stage I**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
15	MC	-2.39	0.02	1.00	0.99	24	MC	-1.59	0.02	1.04	1.05
16	MC	-3.13	0.02	0.85	0.72	25	MC	-2.07	0.02	1.00	1.01
17	MC	-3.04	0.02	0.80	0.66	26	MC	-2.45	0.02	1.21	1.35
18	MC	-3.47	0.02	0.93	0.78	27	MC	-2.21	0.02	1.12	1.15
19	MC	-2.52	0.02	1.11	1.19	28	MC	-2.00	0.02	1.09	1.10
20	MC	-2.68	0.02	1.07	1.07	29	MC	-2.39	0.02	0.94	0.92
21	MC	-2.01	0.02	0.91	0.87	30	MC	-2.43	0.02	1.02	1.02
22	MC	-2.38	0.02	0.96	0.91	31	MC	-2.54	0.02	0.93	0.88
23	MC	-2.41	0.02	0.96	0.91	32	MC	-2.84	0.02	0.91	0.83

NOTE: MC=Multiple-choice Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.2. IRT Statistics for Items in Writing on Stage I**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
33	SA2	-2.10	0.01	1.10	1.16	38	SA1	-2.36	0.02	1.06	1.12
34	SA2	-2.87	0.02	1.01	1.02	39	SA1	-1.60	0.02	1.04	1.04
35	SA2	-1.20	0.02	0.81	0.80	40	SA3	-0.84	0.01	0.73	0.71
36	SA2	-1.79	0.01	0.86	0.86	41	SA3		0.01	0.83	0.81
37	SA2	-1.09	0.01	0.77	0.76						

NOTE: SA1=1 Point Short Answer Item, SA2=2 Point Short Answer Item, SA3=3 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.3. IRT Statistics for Items in Listening on Stage I**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
1	MC	-3.26	0.02	1.04	1.11	8	MC	-2.77	0.02	0.90	0.85
2	MC	-3.08	0.02	1.01	1.00	9	MC	-3.07	0.02	0.90	0.81
3	MC	-2.66	0.02	1.06	1.05	10	MC	-3.14	0.02	0.98	0.95
4	MC	-3.45	0.02	0.99	1.03	11	MC	-3.03	0.02	0.88	0.85
5	MC	-2.40	0.02	1.02	1.05	12	MC	-2.36	0.02	0.95	0.92
6	MC	-2.23	0.02	0.92	0.89	13	MC	-2.30	0.02	0.97	0.93
7	MC	-2.95	0.02	1.04	1.09	14	MC	-2.28	0.02	1.03	1.02

NOTE: MC=Multiple-choice Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.4. IRT Statistics for Items in Speaking on Stage I**

Item Number	Item Type	Rasch Difficulty	Rasch SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	Rasch SE	MNSQ Infit	MNSQ Outfit
42	SA1	-3.01	0.02	1.10	1.38	46	SA2	-2.49	0.01	1.26	1.87
43	SA1	-4.84	0.04	0.99	1.20	47	SA2	-2.66	0.01	1.17	1.60
44	SA1	-2.37	0.02	1.00	1.04	48	SA2	-1.90	0.01	1.32	1.79
45	SA1	-0.21	0.02	1.03	1.03	49	SA4	-2.07	0.01	0.95	0.99

NOTE: SA1=1 Point Short Answer Item, SA2=2 Point Short Answer Item, SA4=4 Point Short Answer; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.5. IRT Statistics for Items in Reading on Stage II**

Item Number	Item Type	Rasch Difficulty	Rasch SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	Rasch SE	MNSQ Infit	MNSQ Outfit
15	MC	-1.69	0.02	0.99	1.00	27	MC	-0.97	0.02	0.97	0.96
16	MC	-1.98	0.02	1.05	1.02	28	MC	-0.58	0.02	0.92	0.91
17	MC	-0.75	0.02	0.99	0.99	29	MC	-0.77	0.02	1.04	1.05
18	MC	-1.87	0.02	0.97	0.96	30	MC	-1.08	0.02	0.92	0.87
19	MC	-1.53	0.02	0.87	0.78	31	MC	-0.55	0.02	0.92	0.91
20	MC	-1.09	0.02	0.99	0.96	32	MC	-0.33	0.02	1.02	1.04
21	MC	-0.25	0.02	0.99	1.01	33	MC	-0.42	0.02	1.10	1.14
22	MC	-1.15	0.02	1.03	1.04	34	MC	-0.85	0.02	0.95	0.93
23	MC	-0.72	0.02	0.92	0.90	50	SA1	-1.36	0.02	1.03	1.05
24	MC	-0.43	0.02	0.87	0.85	51	SA1	-0.79	0.02	1.02	1.03
25	MC	-0.68	0.02	1.04	1.04	52	SA3	-0.05	0.01	1.05	1.03
26	MC	-0.68	0.02	0.91	0.89						

NOTE: MC=Multiple-choice Item, SA1=1 Point Short Answer Item, SA3=3 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.6. IRT Statistics for Items in Writing on Stage II**

Item Number	Item Type	Rasch Difficulty	Rasch SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	Rasch SE	MNSQ Infit	MNSQ Outfit
35	MC	-1.80	0.02	0.84	0.73	43	MC	-0.98	0.02	0.97	0.94
36	MC	-0.76	0.02	0.98	0.97	44	MC	-0.52	0.02	0.94	0.93
37	MC	-0.15	0.02	1.07	1.11	45	MC	-0.94	0.02	1.02	1.01
38	MC	-0.76	0.02	1.03	1.04	46	MC	-0.25	0.02	1.08	1.11
39	MC	-1.31	0.02	1.01	1.01	47	MC	-0.32	0.02	1.07	1.09
40	MC	-2.04	0.02	0.94	0.80	48	ER	-0.96	0.01	0.76	0.76
41	MC	-0.59	0.02	0.94	0.95	49	ER	-1.30	0.01	0.81	0.82
42	MC	-0.60	0.02	1.02	1.04						

NOTE: MC=Multiple-choice Item, ER=Extended Response Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.7. IRT Statistics for Items in Listening on Stage II**

Item Number	Item Type	Rasch Difficulty	Rasch SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	Rasch SE	MNSQ Infit	MNSQ Outfit
1	MC	-1.05	0.02	1.03	1.04	8	MC	-1.41	0.02	0.94	0.91
2	MC	-1.13	0.02	1.01	0.99	9	MC		0.02	1.02	1.06
3	MC	-0.53	0.02	0.98	0.98	10	MC	-2.48	0.02	0.99	0.98
4	MC	-0.42	0.02	1.02	1.03	11	MC	-1.84	0.02	0.99	0.95
5	MC	-0.13	0.02	1.04	1.06	12	MC	-1.73	0.02	1.00	1.01
6	MC	-0.17	0.02	1.03	1.06	13	MC	-1.76	0.02	1.03	1.07
7	MC	-2.05	0.02	1.02	1.04	14	MC	-0.32	0.02	0.96	0.95

NOTE: MC=Multiple-choice Item, Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.8. IRT Statistics for Items in Speaking on Stage II**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
53	SA4	-1.45	0.01	1.04	1.15	57	SA4	-1.22	0.01	1.51	1.99
54	SA4	-1.90	0.01	0.99	1.26	58	SA4	-1.72	0.01	1.32	1.84
55	SA4	-0.59	0.01	1.64	2.23	59	SA4	-1.57	0.01	1.41	2.19
56	SA4	-1.21	0.01	1.55	2.12	60	SA4	-1.80	0.01	0.71	0.76

NOTE: SA4=4 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.9. IRT Statistics for Items in Reading on Stage III**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
15	MC	-0.86	0.02	1.04	1.05	28	MC	0.30	0.01	1.04	1.05
16	MC	0.08	0.01	0.95	0.94	29	MC	0.93	0.01	1.09	1.18
17	MC	-0.91	0.02	0.96	0.94	30	MC	1.01	0.02	1.03	1.08
18	MC	0.26	0.01	0.95	0.96	31	MC	0.70	0.01	1.00	1.04
19	MC	-0.76	0.02	0.88	0.81	32	MC	0.85	0.01	1.03	1.08
20	MC	0.28	0.01	1.03	1.05	33	MC	0.93	0.01	1.04	1.08
21	MC	0.95	0.01	1.03	1.06	34	MC	0.23	0.01	0.94	0.94
22	MC	0.77	0.01	1.05	1.09	35	MC	0.47	0.01	0.98	0.99
23	MC	0.92	0.01	1.08	1.14	36	MC	0.28	0.01	1.03	1.05
24	MC	-0.16	0.01	0.91	0.88	37	MC	-0.51	0.01	0.92	0.89
25	MC	0.55	0.01	0.96	0.97	56	SA1	-0.28	0.01	1.09	1.15
26	MC	-0.41	0.01	0.90	0.87	57	SA1	0.81	0.01	0.97	0.94
27	MC	0.79	0.01	1.02	1.07	58	SA1	0.81	0.01	0.95	0.91

NOTE: MC=Multiple-choice Item, SA1=1 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.10. IRT Statistics for Items in Writing on Stage III**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
38	MC	0.71	0.01	1.00	1.03	47	MC	-0.01	0.01	0.89	0.87
39	MC	0.27	0.01	1.08	1.11	48	MC	0.20	0.01	1.03	1.04
40	MC	0.30	0.01	0.98	0.99	49	MC	-1.29	0.02	0.98	0.92
41	MC	0.31	0.01	1.04	1.06	50	MC	-0.12	0.01	0.95	0.94
42	MC	0.23	0.01	1.04	1.06	51	MC	-0.44	0.01	0.90	0.86
43	MC	-0.45	0.01	0.96	0.96	52	MC	-0.14	0.01	0.90	0.88
44	MC	-0.33	0.01	0.89	0.85	53	MC	0.00	0.01	0.94	0.93
45	MC	-0.96	0.02	0.93	0.90	54	ER	0.67	0.01	0.75	0.76
46	MC	-1.11	0.02	0.86	0.74	55	ER	0.65	0.01	0.90	0.96

NOTE: MC=Multiple-choice Item, ER=Extended Response Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.11. IRT Statistics for Items in Listening on Stage III**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
1	MC	-0.79	0.02	1.03	1.05	8	MC	0.02	0.01	1.00	1.03
2	MC	-0.37	0.01	1.01	1.01	9	MC	-0.49	0.01	1.08	1.14
3	MC	1.15	0.02	1.16	1.27	10	MC	0.08	0.01	0.95	0.94
4	MC	-0.89	0.02	1.02	1.04	11	MC	0.58	0.01	1.05	1.06
5	MC	-0.42	0.01	0.99	0.98	12	MC	-0.62	0.02	0.93	0.93
6	MC	1.11	0.02	1.18	1.31	13	MC	-0.01	0.01	0.95	0.93
7	MC	1.10	0.02	1.05	1.10	14	MC	0.14	0.01	1.04	1.05

NOTE: MC=Multiple-choice Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.12. IRT Statistics for Items in Speaking on Stage III**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
59	SA4	-0.69	0.01	1.39	1.96	63	SA4	-0.76	0.01	1.26	4.52
60	SA4	-1.52	0.01	0.89	2.01	64	SA4	-0.87	0.01	1.34	2.79
61	SA4	-1.02	0.01	1.22	2.29	65	SA4	-0.74	0.01	1.31	2.70
62	SA4	-1.16	0.01	0.94	1.54	66	SA4	-1.27	0.01	0.81	0.82

NOTE: SA4=4 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.13. IRT Statistics for Items in Reading on Stage IV**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
15	MC	0.14	0.02	1.01	1.02	29	MC	0.92	0.02	1.13	1.21
16	MC	0.14	0.02	1.10	1.14	30	MC	0.56	0.02	0.93	0.92
17	MC	-0.97	0.02	0.88	0.80	31	MC	1.41	0.02	1.02	1.14
18	MC	-1.32	0.03	0.92	0.80	32	MC	0.41	0.02	0.95	0.95
19	MC	-1.46	0.03	0.80	0.55	33	MC	0.60	0.02	0.92	0.91
20	MC	0.14	0.02	0.92	0.89	34	MC	0.62	0.02	0.92	0.91
21	MC	0.22	0.02	0.89	0.85	35	MC	0.25	0.02	0.92	0.88
22	MC	-0.40	0.02	0.91	0.84	36	MC	1.18	0.02	1.02	1.04
23	MC	0.84	0.02	1.05	1.06	37	MC	1.31	0.02	0.95	0.97
24	MC	1.12	0.02	1.14	1.21	38	MC	1.18	0.02	1.04	1.11
25	MC	0.55	0.02	1.04	1.05	39	MC	0.22	0.02	0.99	0.97
26	MC	-0.11	0.02	0.86	0.80	40	MC	1.31	0.02	1.00	1.08
27	MC	1.49	0.02	1.00	1.07	61	SA1	1.42	0.02	1.03	1.00
28	MC	0.00	0.02	0.95	0.93	62	SA1	1.83	0.02	0.99	0.93

NOTE: MC=Multiple-choice Item, SA1=1 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.14. IRT Statistics for Items in Writing on Stage IV**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
41	MC	-0.09	0.02	1.07	1.12	51	MC	1.02	0.02	1.09	1.11
42	MC	0.72	0.02	1.01	1.02	52	MC	-0.17	0.02	0.93	0.92
43	MC	0.60	0.02	0.97	0.97	53	MC	0.11	0.02	0.92	0.89
44	MC	0.69	0.02	1.05	1.07	54	MC	-0.24	0.02	0.90	0.87
45	MC	0.80	0.02	0.97	0.97	55	MC	0.46	0.02	1.04	1.07
46	MC	-0.11	0.02	0.94	0.91	56	MC	0.07	0.02	0.92	0.89
47	MC	-0.01	0.02	0.99	1.00	57	MC	1.09	0.02	1.08	1.14
48	MC	0.71	0.02	1.04	1.06	58	MC	1.29	0.02	1.05	1.13
49	MC	1.23	0.02	1.09	1.16	59	ER	1.85	0.01	0.79	0.81
50	MC	-0.36	0.02	0.87	0.81	60	ER	1.53	0.01	0.87	0.90

NOTE: MC=Multiple-choice Item, ER=Extended Response Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.15. IRT Statistics for Items in Listening on Stage IV**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
1	MC	-0.55	0.02	1.02	1.01	8	MC	1.27	0.02	1.11	1.20
2	MC	-0.57	0.02	0.96	0.96	9	MC	1.47	0.02	1.06	1.11
3	MC	-0.52	0.02	0.92	0.90	10	MC	0.13	0.02	1.04	1.05
4	MC	0.45	0.02	1.09	1.11	11	MC	0.39	0.02	1.03	1.05
5	MC	1.12	0.02	1.11	1.17	12	MC	0.16	0.02	1.08	1.10
6	MC	0.21	0.02	1.02	1.03	13	MC	-0.06	0.02	0.98	0.96
7	MC	-0.14	0.02	0.97	0.95	14	MC	1.56	0.02	1.12	1.17

NOTE: MC=Multiple-choice Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.16. IRT Statistics for Items in Speaking on Stage IV**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
63	SA4	-0.86	0.01	0.93	1.07	67	SA4	-0.28	0.01	1.34	2.71
64	SA4	0.09	0.01	1.32	1.43	68	SA4	0.02	0.01	1.30	1.43
65	SA4	-0.57	0.01	1.06	1.46	69	SA4	-0.13	0.01	1.38	2.20
66	SA4	0.22	0.01	1.17	1.22	70	SA4	-0.12	0.01	0.80	0.85

NOTE: SA4=4 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.17. IRT Statistics for Items in Reading on Stage V**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
15	MC	-0.48	0.03	0.94	0.91	29	MC	1.39	0.03	1.04	1.09
16	MC	-0.57	0.03	0.94	0.90	30	MC	0.69	0.02	1.02	1.01
17	MC	-0.17	0.03	0.83	0.75	31	MC	1.26	0.02	1.02	1.04
18	MC	1.20	0.02	1.07	1.09	32	MC	-0.08	0.03	0.90	0.84
19	MC	0.33	0.03	0.95	0.97	33	MC	0.51	0.03	0.88	0.85
20	MC	-1.69	0.04	0.94	0.67	34	MC	-0.49	0.03	0.93	0.88
21	MC	0.48	0.03	0.98	0.96	35	MC	1.03	0.02	1.08	1.10
22	MC	0.99	0.02	1.04	1.08	36	MC	1.56	0.03	1.03	1.06
23	MC	1.21	0.02	1.00	1.03	37	MC	1.47	0.03	1.08	1.17
24	MC	0.77	0.02	1.07	1.08	38	MC	2.01	0.03	0.98	1.08
25	MC	0.02	0.03	0.92	0.87	39	MC	1.49	0.03	1.12	1.20
26	MC	0.57	0.02	0.99	0.98	40	MC	1.10	0.02	1.07	1.09
27	MC	0.67	0.02	1.06	1.06	41	MC	0.67	0.02	0.97	0.96
28	MC	0.90	0.02	1.03	1.03	42	MC	2.07	0.03	1.04	1.18

NOTE: MC=Multiple-choice Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.18. IRT Statistics for Items in Writing on Stage V**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
43	MC	0.79	0.02	1.02	1.04	53	MC	0.52	0.02	0.87	0.85
44	MC	1.46	0.03	1.12	1.17	54	MC	0.49	0.03	0.93	0.92
45	MC	-1.07	0.03	0.95	0.96	55	MC	1.16	0.02	0.94	0.94
46	MC	0.85	0.02	1.00	1.01	56	MC	0.97	0.02	1.05	1.07
47	MC	1.87	0.03	1.04	1.09	57	MC	0.46	0.03	1.00	0.98
48	MC	-0.08	0.03	0.91	0.88	58	MC	0.26	0.03	0.83	0.78
49	MC	1.52	0.03	1.05	1.08	59	MC	1.26	0.02	1.08	1.12
50	MC	0.66	0.02	1.07	1.11	60	MC	1.46	0.03	1.06	1.12
51	MC	1.32	0.03	1.07	1.11	61	ER	2.14	0.01	0.78	0.78
52	MC	1.97	0.03	1.08	1.20	62	ER	1.66	0.02	1.18	1.18

NOTE: MC=Multiple-choice Item, ER=Extended Response Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.19. IRT Statistics for Items in Listening on Stage V**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
1	MC	-1.19	0.03	0.86	0.68	8	MC	0.96	0.02	1.05	1.06
2	MC	0.00	0.03	0.99	1.00	9	MC	1.07	0.02	1.03	1.04
3	MC	0.28	0.03	0.99	1.01	10	MC	1.13	0.02	1.14	1.20
4	MC	0.78	0.02	1.06	1.07	11	MC	1.24	0.02	1.00	1.01
5	MC	0.01	0.03	1.06	1.06	12	MC	1.40	0.03	1.01	1.05
6	MC	1.63	0.03	1.08	1.16	13	MC	0.45	0.03	0.91	0.89
7	MC	0.77	0.02	0.91	0.90	14	MC	0.72	0.02	1.02	1.03

NOTE: MC=Multiple-choice Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table B.20. IRT Statistics for Items in Speaking on Stage V**

Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit	Item Number	Item Type	Rasch Difficulty	SE	MNSQ Infit	MNSQ Outfit
63	SA4	0.01	0.01	1.08	1.18	67	SA4	1.12	0.02	0.81	0.73
64	SA4	0.90	0.01	0.95	1.01	68	SA4	1.86	0.01	1.14	1.22
65	SA4	1.08	0.02	0.91	0.98	69	SA4	1.09	0.02	0.99	1.42
66	SA4	0.23	0.01	1.19	1.41	70	SA4	0.73	0.01	0.72	0.76

NOTE: SA4=4 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

## Appendix C. AZELLA REASSESSMENT ADMINISTRATION RESULTS

This appendix shows the Spring 2017 AZELLA Reassessment results for all students and subgroups. The statistics include mean and SD of Total Combined scale score and the percentage of students at each proficiency level overall as well as on each domain and subdomain.

**Table C.1. AZELLA Stage I Reassessment Test Results at Kindergarten**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	12570	2322.41	65.31	8	20	40	32
Hispanic	10768	2321.84	63.75	8	20	41	31
Non-Hispanic	1802	2325.82	73.89	11	18	35	37
White	9636	2322.48	63.30	8	20	41	32
Black or African American	246	2302.30	79.28	24	17	33	27
Asian	462	2332.86	78.84	10	14	34	42
American Indian or Alaskan Native	231	2318.98	62.44	6	26	38	30
Native Hawaiian or Other Pacific Islander	46	2309.02	62.19	11	33	30	26
Multiple Indication	1332	2328.90	66.35	6	19	39	36
Special Education	839	2301.37	61.66	14	27	37	22
Low SES	8570	2321.87	64.87	8	20	41	31

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.2. AZELLA Stage II Reassessment Test Results at Grade 1**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	9132	2362.13	43.42	3	28	51	18
Hispanic	7869	2360.81	41.07	3	28	52	16
Non-Hispanic	1263	2370.42	55.17	5	25	43	27
White	6896	2361.04	41.54	3	28	52	16
Black or African American	159	2353.14	52.32	13	25	44	19
Asian	247	2383.91	65.27	4	19	39	38
American Indian or Alaskan Native	228	2359.61	40.28	3	29	56	13
Native Hawaiian or Other Pacific Islander	30	2359.77	46.13	7	27	47	20
Multiple Indication	1220	2365.75	45.75	3	27	48	21
Special Education	911	2346.60	38.46	5	42	42	11
Low SES	6483	2360.76	41.61	3	28	52	16

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.3. AZELLA Stage II Reassessment Test Results at Grade 2**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	9034	2407.84	54.83	10	23	39	28
Hispanic	7834	2408.53	53.26	9	23	39	28
Non-Hispanic	1200	2403.33	63.95	15	22	34	29
White	6904	2408.46	53.66	9	23	40	28
Black or African American	180	2373.64	73.17	33	23	23	21
Asian	222	2423.65	64.71	10	15	33	41
American Indian or Alaskan Native	218	2402.36	48.52	7	28	40	25
Native Hawaiian or Other Pacific Islander	23	2389.52	55.59	13	35	39	13
Multiple Indication	1186	2410.59	54.34	9	23	37	31
Special Education	906	2381.33	48.60	18	37	29	16
Low SES	6587	2407.47	53.81	9	23	39	28

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.4. AZELLA Stage III Reassessment Test Results at Grade 3**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	8243	2417.96	42.21	11	37	45	7
Hispanic	7224	2418.06	40.16	10	38	46	6
Non-Hispanic	1019	2417.22	54.59	18	32	39	11
White	6392	2417.77	40.95	10	38	45	7
Black or African American	151	2400.21	56.06	32	31	28	9
Asian	186	2433.85	59.32	11	22	49	18
American Indian or Alaskan Native	207	2413.37	38.74	11	43	41	6
Native Hawaiian or Other Pacific Islander	14	2430.29	54.00	14	14	50	21
Multiple Indication	1026	2418.91	42.56	10	38	45	7
Special Education	930	2399.23	34.32	19	51	29	1
Low SES	6090	2417.20	41.42	11	38	45	7

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.5. AZELLA Stage III Reassessment Test Results at Grade 4**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	8245	2448.23	53.57	14	25	52	10
Hispanic	7078	2449.34	51.71	13	25	53	9
Non-Hispanic	1167	2441.52	63.33	20	23	45	11
White	6187	2448.43	52.00	13	25	52	9
Black or African American	185	2411.31	68.41	38	22	34	6
Asian	190	2460.74	61.70	15	16	53	16
American Indian or Alaskan Native	285	2444.89	45.17	11	31	50	8
Native Hawaiian or Other Pacific Islander	18	2450.61	62.74	11	39	33	17
Multiple Indication	1018	2449.19	53.61	13	24	52	10
Special Education	1050	2420.03	41.64	26	39	34	2
Low SES	6093	2447.89	52.83	14	25	52	9

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.6. AZELLA Stage III Reassessment Test Results at Grade 5**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	6418	2462.52	56.81	14	19	56	11
Hispanic	5478	2464.48	54.09	13	19	58	10
Non-Hispanic	940	2451.13	69.56	24	19	44	13
White	4922	2464.41	55.09	13	19	58	10
Black or African American	164	2422.66	69.20	41	21	32	6
Asian	139	2468.12	74.01	20	14	45	20
American Indian or Alaskan Native	273	2469.66	46.04	6	19	64	11
Native Hawaiian or Other Pacific Islander	20	2484.75	63.89	10	15	55	20
Multiple Indication	719	2457.42	57.61	18	20	52	10
Special Education	851	2446.58	45.70	18	30	48	4
Low SES	4689	2461.25	55.87	14	19	57	9

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.7. AZELLA Stage IV Reassessment Test Results at Grade 6**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	4312	2457.77	50.39	15	23	57	6
Hispanic	3658	2460.02	48.50	13	23	59	6
Non-Hispanic	654	2445.21	58.35	26	21	46	7
White	3243	2459.34	49.35	14	23	58	6
Black or African American	100	2412.51	56.28	50	21	26	3
Asian	90	2461.38	54.64	18	19	56	8
American Indian or Alaskan Native	189	2462.28	44.14	8	26	60	6
Native Hawaiian or Other Pacific Islander	11	2448.73	63.34	27	27	36	9
Multiple Indication	540	2453.71	50.17	16	21	57	6
Special Education	587	2445.28	38.29	14	36	49	2
Low SES	3127	2456.75	49.99	15	23	57	5

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.8. AZELLA Stage IV Reassessment Test Results at Grade 7**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	4199	2471.19	58.62	14	17	61	9
Hispanic	3521	2473.36	57.34	12	17	62	9
Non-Hispanic	678	2459.91	63.75	21	17	52	9
White	3161	2473.00	56.84	13	17	62	9
Black or African American	125	2425.54	64.14	42	17	38	3
Asian	107	2463.53	61.23	20	21	47	12
American Indian or Alaskan Native	211	2466.40	56.83	8	17	73	2
Native Hawaiian or Other Pacific Islander	16	2480.31	41.13	0	25	69	6
Multiple Indication	410	2473.45	61.87	15	17	58	10
Special Education	475	2454.32	48.15	10	30	58	2
Low SES	2987	2470.40	58.32	14	17	61	8

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.9. AZELLA Stage IV Reassessment Test Results at Grade 8**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	3392	2478.79	60.68	13	15	62	10
Hispanic	2783	2482.02	58.93	11	14	64	10
Non-Hispanic	609	2464.03	66.17	21	17	54	8
White	2510	2480.52	59.22	12	14	64	10
Black or African American	128	2432.30	70.39	41	19	34	6
Asian	92	2480.79	71.99	18	17	49	15
American Indian or Alaskan Native	196	2493.48	51.80	5	11	71	13
Native Hawaiian or Other Pacific Islander	13	2471.77	50.20	8	15	77	0
Multiple Indication	337	2475.30	56.20	12	16	64	7
Special Education	312	2466.01	43.48	6	26	66	1
Low SES	2364	2477.93	61.49	14	14	62	10

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.10. AZELLA Stage V Reassessment Test Results at Grade 9**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	2902	2471.13	57.16	24	24	47	6
Hispanic	2184	2474.34	55.93	21	24	49	6
Non-Hispanic	718	2461.36	59.75	32	22	41	5
White	2051	2473.42	56.81	22	24	48	6
Black or African American	234	2435.63	52.59	52	21	25	2
Asian	104	2486.69	54.98	13	24	55	9
American Indian or Alaskan Native	112	2484.16	40.69	7	25	65	3
Native Hawaiian or Other Pacific Islander	12	2492.92	50.16	8	25	58	8
Multiple Indication	257	2473.23	56.09	22	28	45	5
Special Education	168	2471.55	40.54	13	39	47	2
Low SES	1701	2471.08	56.97	23	24	48	5

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.11. AZELLA Stage V Reassessment Test Results at Grade 10**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	2298	2486.92	53.84	13	22	57	8
Hispanic	1771	2487.82	53.43	13	22	58	8
Non-Hispanic	527	2483.88	55.17	14	25	53	8
White	1707	2487.27	52.50	13	22	58	7
Black or African American	150	2469.47	57.14	23	26	45	7
Asian	89	2509.34	59.07	8	18	54	20
American Indian or Alaskan Native	79	2491.25	34.11	1	24	72	3
Native Hawaiian or Other Pacific Islander	2	*	*	*	*	*	*
Multiple Indication	196	2484.02	58.82	17	27	48	9
Special Education	116	2473.83	39.53	11	32	54	3
Low SES	1397	2485.20	54.15	14	22	57	7

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an “\*”.

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.12. AZELLA Stage V Reassessment Test Results at Grade 11**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	1503	2496.07	51.33	10	18	63	9
Hispanic	1120	2496.14	51.64	9	18	63	9
Non-Hispanic	383	2495.85	50.50	10	16	64	9
White	1074	2496.78	52.21	9	19	63	10
Black or African American	104	2483.08	49.89	16	21	56	7
Asian	78	2505.31	53.58	10	8	71	12
American Indian or Alaskan Native	64	2502.14	36.39	2	20	70	8
Native Hawaiian or Other Pacific Islander	7	*	*	*	*	*	*
Multiple Indication	123	2496.67	48.06	11	15	67	7
Special Education	70	2484.20	43.35	10	20	66	4
Low SES	945	2493.43	52.02	11	18	62	9

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an “\*”.

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.13. AZELLA Stage V Reassessment Test Results at Grade 12**

Group	N	Total Combined Scale Score		***% at Overall Proficiency Levels			
		Mean	SD	PE/E	B	I	P
All	965	2498.48	52.51	8	21	60	11
Hispanic	684	2497.25	54.91	9	24	55	12
Non-Hispanic	281	2501.49	46.09	7	14	70	9
White	668	2496.98	55.10	9	23	56	12
Black or African American	69	2492.51	44.95	9	19	67	6
Asian	45	2516.31	43.00	4	7	73	16
American Indian or Alaskan Native	44	2509.05	38.31	2	11	82	5
Native Hawaiian or Other Pacific Islander	7	*	*	*	*	*	*
Multiple Indication	100	2499.00	47.56	7	19	66	8
Special Education	63	2470.57	43.52	13	30	52	5
Low SES	614	2498.54	51.46	8	21	60	10

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an “\*”.

\*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

In addition to the overall test results presented above, the percentages of students in each proficiency level for domains and subdomains are also presented below. Each grade and domain/subdomain is presented in a separate table.

**Table C.14. AZELLA Stage I Reassessment Test Results on Listening at Kindergarten**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	12570	29	20	51
Hispanic	10768	29	20	51
Non-Hispanic	1802	29	19	51
White	9636	29	20	51
Black or African American	246	38	20	43
Asian	462	26	19	56
American Indian or Alaskan Native	231	33	24	42
Native Hawaiian or Other Pacific Islander	46	28	33	39
Multiple Indication	1332	27	19	54
Special Education	839	41	20	39
Low SES	8570	29	20	51

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.15. AZELLA Stage I Reassessment Test Results on Speaking at Kindergarten**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	12570	23	32	44
Hispanic	10768	23	33	45
Non-Hispanic	1802	27	30	43
White	9636	22	33	45
Black or African American	246	31	26	43
Asian	462	32	27	40
American Indian or Alaskan Native	231	27	35	38
Native Hawaiian or Other Pacific Islander	46	28	43	28
Multiple Indication	1332	21	32	46
Special Education	839	30	37	33
Low SES	8570	23	32	45

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.16. AZELLA Stage I Reassessment Test Results on Reading at Kindergarten**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	12570	28	25	47
Hispanic	10768	29	25	46
Non-Hispanic	1802	26	22	52
White	9636	28	25	47
Black or African American	246	39	22	38
Asian	462	23	21	57
American Indian or Alaskan Native	231	26	31	44
Native Hawaiian or Other Pacific Islander	46	30	35	35
Multiple Indication	1332	25	26	49
Special Education	839	39	26	34
Low SES	8570	29	25	46
Migrant	12570	28	25	47

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.17. AZELLA Stage I Reassessment Test Results on Writing at Kindergarten**

Group	N	% at Proficiency Levels		P
		PE/E/B	I	
All	12570	31	22	47
Hispanic	10768	32	22	46
Non-Hispanic	1802	29	21	51
White	9636	31	22	46
Black or African American	246	44	19	37
Asian	462	24	18	58
American Indian or Alaskan Native	231	30	23	47
Native Hawaiian or Other Pacific Islander	46	37	28	35
Multiple Indication	1332	28	21	51
Special Education	839	42	23	35
Low SES	8570	32	22	45

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.18. AZELLA Stage I Reassessment Test Results on Language at Kindergarten**

Group	N	% at Proficiency Levels		P
		PE/E/B	I	
All	12570	26	29	45
Hispanic	10768	26	30	44
Non-Hispanic	1802	27	25	48
White	9636	25	30	45
Black or African American	246	39	24	37
Asian	462	25	24	51
American Indian or Alaskan Native	231	32	24	45
Native Hawaiian or Other Pacific Islander	46	35	28	37
Multiple Indication	1332	23	29	48
Special Education	839	38	31	31
Low SES	8570	26	30	44

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.19. AZELLA Stage I Reassessment Test Results on Oral at Kindergarten**

Group	N	% at Proficiency Levels		P
		PE/E/B	I	
All	12570	26	25	49
Hispanic	10768	26	25	49
Non-Hispanic	1802	30	22	48
White	9636	26	25	50
Black or African American	246	35	22	43
Asian	462	29	24	46
American Indian or Alaskan Native	231	33	26	42
Native Hawaiian or Other Pacific Islander	46	35	24	41
Multiple Indication	1332	25	24	51
Special Education	839	38	26	35
Low SES	8570	26	24	49

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.20. AZELLA Stage I Reassessment Test Results on Comprehension at Kindergarten**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	12570	30	25	45
Hispanic	10768	30	26	45
Non-Hispanic	1802	29	21	50
White	9636	30	25	45
Black or African American	246	41	21	39
Asian	462	25	21	55
American Indian or Alaskan Native	231	31	28	41
Native Hawaiian or Other Pacific Islander	46	37	28	35
Multiple Indication	1332	27	24	49
Special Education	839	42	27	32
Low SES	8570	30	26	45

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.21. AZELLA Stage I Reassessment Test Results on Literacy at Kindergarten**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	12570	30	26	44
Hispanic	10768	30	27	43
Non-Hispanic	1802	28	21	51
White	9636	30	27	44
Black or African American	246	44	19	37
Asian	462	22	21	57
American Indian or Alaskan Native	231	28	27	45
Native Hawaiian or Other Pacific Islander	46	41	22	37
Multiple Indication	1332	26	25	48
Special Education	839	41	27	32
Low SES	8570	31	26	43

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.22. AZELLA Stage I Reassessment Test Results on Total Combined at Kindergarten**

Group	N	% at Proficiency Level			P
		PE/E	B	I	
All	12570	8	20	26	46
Hispanic	10768	8	20	26	46
Non-Hispanic	1802	11	18	21	51
White	9636	8	20	26	46
Black or African American	246	24	17	20	40
Asian	462	10	14	23	53
American Indian or Alaskan Native	231	6	26	23	45
Native Hawaiian or Other Pacific Islander	46	11	33	11	46
Multiple Indication	1332	6	19	24	51
Special Education	839	14	27	26	33
Low SES	8570	8	20	26	46

\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.23. AZELLA Stage II Reassessment Test Results on Listening at Grade 1**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9132	37	26	36
Hispanic	7869	38	27	36
Non-Hispanic	1263	35	24	41
White	6896	38	26	36
Black or African American	159	36	28	35
Asian	247	30	23	48
American Indian or Alaskan Native	228	44	25	31
Native Hawaiian or Other Pacific Islander	30	33	17	50
Multiple Indication	1220	38	26	36
Special Education	911	55	21	24
Low SES	6483	38	27	35

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.24. AZELLA Stage II Reassessment Test Results on Speaking at Grade 1**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9132	21	37	42
Hispanic	7869	21	38	41
Non-Hispanic	1263	23	33	44
White	6896	21	38	41
Black or African American	159	31	31	37
Asian	247	23	32	45
American Indian or Alaskan Native	228	19	39	42
Native Hawaiian or Other Pacific Islander	30	30	37	33
Multiple Indication	1220	20	36	44
Special Education	911	28	41	31
Low SES	6483	21	38	41

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.25. AZELLA Stage II Reassessment Test Results on Reading at Grade 1**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9132	33	42	25
Hispanic	7869	34	43	23
Non-Hispanic	1263	29	37	33
White	6896	34	43	23
Black or African American	159	37	39	24
Asian	247	21	33	46
American Indian or Alaskan Native	228	36	41	23
Native Hawaiian or Other Pacific Islander	30	37	37	27
Multiple Indication	1220	30	42	28
Special Education	911	43	39	17
Low SES	6483	34	42	24

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.26. AZELLA Stage II Reassessment Test Results on Writing at Grade 1**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9132	38	30	32
Hispanic	7869	38	31	31
Non-Hispanic	1263	33	25	42
White	6896	38	31	31
Black or African American	159	43	28	30
Asian	247	25	19	56
American Indian or Alaskan Native	228	39	32	29
Native Hawaiian or Other Pacific Islander	30	33	30	37
Multiple Indication	1220	33	30	37
Special Education	911	54	25	21
Low SES	6483	38	31	31

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.27. AZELLA Stage II Reassessment Test Results on Language at Grade 1**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9132	29	40	31
Hispanic	7869	29	41	30
Non-Hispanic	1263	29	32	39
White	6896	29	41	30
Black or African American	159	37	34	29
Asian	247	26	28	47
American Indian or Alaskan Native	228	28	43	30
Native Hawaiian or Other Pacific Islander	30	33	30	37
Multiple Indication	1220	28	37	35
Special Education	911	45	37	19
Low SES	6483	29	41	30

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.28. AZELLA Stage II Reassessment Test Results on Oral at Grade 1**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9132	24	41	35
Hispanic	7869	24	42	34
Non-Hispanic	1263	25	36	39
White	6896	24	42	34
Black or African American	159	31	38	31
Asian	247	23	31	46
American Indian or Alaskan Native	228	22	49	29
Native Hawaiian or Other Pacific Islander	30	30	27	43
Multiple Indication	1220	24	40	36
Special Education	911	37	42	21
Low SES	6483	24	42	34

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.29. AZELLA Stage II Reassessment Test Results on Comprehension at Grade 1**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9132	36	36	28
Hispanic	7869	36	37	27
Non-Hispanic	1263	34	30	37
White	6896	36	37	27
Black or African American	159	40	33	27
Asian	247	24	30	46
American Indian or Alaskan Native	228	44	30	25
Native Hawaiian or Other Pacific Islander	30	37	30	33
Multiple Indication	1220	36	32	32
Special Education	911	49	34	16
Low SES	6483	36	36	27

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.30. AZELLA Stage II Reassessment Test Results on Literacy at Grade 1**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9132	38	35	28
Hispanic	7869	38	36	26
Non-Hispanic	1263	33	29	38
White	6896	38	36	26
Black or African American	159	45	28	27
Asian	247	23	24	52
American Indian or Alaskan Native	228	39	33	28
Native Hawaiian or Other Pacific Islander	30	37	30	33
Multiple Indication	1220	34	34	32
Special Education	911	53	28	19
Low SES	6483	38	35	26

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.31. AZELLA Stage II Reassessment Test Results on Total Combined at Grade 1**

Group	N	% at Proficiency Level		
		PE/E	B	I
All	9132	3	28	42
Hispanic	7869	3	28	43
Non-Hispanic	1263	5	25	34
White	6896	3	28	43
Black or African American	159	13	25	35
Asian	247	4	19	28
American Indian or Alaskan Native	228	3	29	44
Native Hawaiian or Other Pacific Islander	30	7	27	33
Multiple Indication	1220	3	27	40
Special Education	911	5	42	37
Low SES	6483	3	28	42
Migrant	9132	3	28	42

\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.32. AZELLA Stage II Reassessment Test Results on Listening at Grade 2**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9034	39	23	38
Hispanic	7834	38	24	38
Non-Hispanic	1200	41	21	38
White	6904	38	24	38
Black or African American	180	53	17	30
Asian	222	29	22	50
American Indian or Alaskan Native	218	50	18	31
Native Hawaiian or Other Pacific Islander	23	48	22	30
Multiple Indication	1186	39	22	39
Special Education	906	58	19	23
Low SES	6587	38	23	38

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.33. AZELLA Stage II Reassessment Test Results on Speaking at Grade 2**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9034	34	34	32
Hispanic	7834	33	34	33
Non-Hispanic	1200	41	31	29
White	6904	33	34	32
Black or African American	180	49	22	28
Asian	222	36	30	34
American Indian or Alaskan Native	218	36	38	26
Native Hawaiian or Other Pacific Islander	23	48	35	17
Multiple Indication	1186	35	32	33
Special Education	906	48	33	19
Low SES	6587	34	34	32
Migrant	9034	34	34	32

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.34. AZELLA Stage II Reassessment Test Results on Reading at Grade 2**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9034	32	27	41
Hispanic	7834	32	28	41
Non-Hispanic	1200	35	24	41
White	6904	32	28	40
Black or African American	180	53	18	29
Asian	222	25	22	54
American Indian or Alaskan Native	218	33	28	39
Native Hawaiian or Other Pacific Islander	23	52	22	26
Multiple Indication	1186	31	25	44
Special Education	906	51	25	25
Low SES	6587	32	27	40

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.35. AZELLA Stage II Reassessment Test Results on Writing at Grade 2**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9034	34	25	42
Hispanic	7834	33	25	42
Non-Hispanic	1200	36	23	41
White	6904	33	25	42
Black or African American	180	54	18	28
Asian	222	25	20	55
American Indian or Alaskan Native	218	35	29	36
Native Hawaiian or Other Pacific Islander	23	39	22	39
Multiple Indication	1186	31	25	43
Special Education	906	52	23	25
Low SES	6587	34	25	41

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.36. AZELLA Stage II Reassessment Test Results on Language at Grade 2**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9034	31	32	36
Hispanic	7834	31	33	37
Non-Hispanic	1200	37	28	35
White	6904	31	33	36
Black or African American	180	53	23	24
Asian	222	28	25	47
American Indian or Alaskan Native	218	30	36	34
Native Hawaiian or Other Pacific Islander	23	35	43	22
Multiple Indication	1186	31	31	38
Special Education	906	52	30	17
Low SES	6587	31	32	36

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.37. AZELLA Stage II Reassessment Test Results on Oral at Grade 2**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9034	35	34	32
Hispanic	7834	34	34	32
Non-Hispanic	1200	41	29	30
White	6904	34	35	32
Black or African American	180	55	21	24
Asian	222	32	27	41
American Indian or Alaskan Native	218	41	37	22
Native Hawaiian or Other Pacific Islander	23	48	39	13
Multiple Indication	1186	34	32	34
Special Education	906	54	30	16
Low SES	6587	34	34	32

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.38. AZELLA Stage II Reassessment Test Results on Comprehension at Grade 2**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9034	35	25	41
Hispanic	7834	34	25	41
Non-Hispanic	1200	38	22	39
White	6904	34	25	41
Black or African American	180	56	15	29
Asian	222	25	20	55
American Indian or Alaskan Native	218	39	28	33
Native Hawaiian or Other Pacific Islander	23	48	30	22
Multiple Indication	1186	34	23	43
Special Education	906	56	21	23
Low SES	6587	34	25	40

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.39. AZELLA Stage II Reassessment Test Results on Literacy at Grade 2**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	9034	34	24	42
Hispanic	7834	34	24	42
Non-Hispanic	1200	36	20	43
White	6904	33	24	42
Black or African American	180	55	14	31
Asian	222	26	15	59
American Indian or Alaskan Native	218	35	27	38
Native Hawaiian or Other Pacific Islander	23	48	26	26
Multiple Indication	1186	33	21	46
Special Education	906	54	22	24
Low SES	6587	34	24	42

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.40. AZELLA Stage II Reassessment Test Results on Total Combined at Grade 2**

Group	N	% at Proficiency Level			P
		PE/E	B	I	
All	9034	10	23	31	36
Hispanic	7834	9	23	32	36
Non-Hispanic	1200	15	22	27	36
White	6904	9	23	32	36
Black or African American	180	33	23	20	24
Asian	222	10	15	25	50
American Indian or Alaskan Native	218	7	28	34	31
Native Hawaiian or Other Pacific Islander	23	13	35	30	22
Multiple Indication	1186	9	23	29	39
Special Education	906	18	37	25	19
Low SES	6587	9	23	32	36

\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.41. AZELLA Stage III Reassessment Test Results on Listening at Grade 3**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8243	50	26	24
Hispanic	7224	49	27	24
Non-Hispanic	1019	51	22	27
White	6392	50	26	24
Black or African American	151	55	19	26
Asian	186	39	25	36
American Indian or Alaskan Native	207	58	22	19
Native Hawaiian or Other Pacific Islander	14	50	14	36
Multiple Indication	1026	48	27	25
Special Education	930	65	22	13
Low SES	6090	50	27	24

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.42. AZELLA Stage III Reassessment Test Results on Speaking at Grade 3**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8243	42	34	24
Hispanic	7224	41	35	24
Non-Hispanic	1019	49	29	22
White	6392	41	35	24
Black or African American	151	54	23	24
Asian	186	47	32	21
American Indian or Alaskan Native	207	49	32	18
Native Hawaiian or Other Pacific Islander	14	36	43	21
Multiple Indication	1026	42	33	24
Special Education	930	58	27	15
Low SES	6090	42	34	24

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.43. AZELLA Stage III Reassessment Test Results on Reading at Grade 3**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8243	48	41	11
Hispanic	7224	48	41	11
Non-Hispanic	1019	46	38	16
White	6392	48	41	11
Black or African American	151	58	31	11
Asian	186	32	43	25
American Indian or Alaskan Native	207	53	40	7
Native Hawaiian or Other Pacific Islander	14	43	21	36
Multiple Indication	1026	47	41	12
Special Education	930	64	32	4
Low SES	6090	49	40	11

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.44. AZELLA Stage III Reassessment Test Results on Writing at Grade 3**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8243	50	23	27
Hispanic	7224	50	23	27
Non-Hispanic	1019	52	18	30
White	6392	50	23	27
Black or African American	151	67	17	16
Asian	186	38	23	40
American Indian or Alaskan Native	207	48	27	25
Native Hawaiian or Other Pacific Islander	14	57	7	36
Multiple Indication	1026	51	21	28
Special Education	930	69	18	13
Low SES	6090	51	23	26

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.45. AZELLA Stage III Reassessment Test Results on Language at Grade 3**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8243	45	43	11
Hispanic	7224	45	44	11
Non-Hispanic	1019	49	37	14
White	6392	45	44	11
Black or African American	151	58	30	11
Asian	186	38	42	19
American Indian or Alaskan Native	207	49	43	8
Native Hawaiian or Other Pacific Islander	14	36	50	14
Multiple Indication	1026	46	42	11
Special Education	930	67	30	3
Low SES	6090	46	43	11

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.46 AZELLA Stage III Reassessment Test Results on Oral at Grade 3**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8243	42	39	19
Hispanic	7224	41	40	19
Non-Hispanic	1019	48	32	21
White	6392	42	40	19
Black or African American	151	54	26	20
Asian	186	38	35	27
American Indian or Alaskan Native	207	47	40	13
Native Hawaiian or Other Pacific Islander	14	43	21	36
Multiple Indication	1026	42	38	20
Special Education	930	59	33	8
Low SES	6090	42	40	19

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.47. AZELLA Stage III Reassessment Test Results on Comprehension at Grade 3**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8243	52	34	14
Hispanic	7224	52	35	13
Non-Hispanic	1019	50	32	19
White	6392	52	35	13
Black or African American	151	61	22	17
Asian	186	35	39	26
American Indian or Alaskan Native	207	57	34	9
Native Hawaiian or Other Pacific Islander	14	36	36	29
Multiple Indication	1026	52	34	15
Special Education	930	71	24	5
Low SES	6090	53	34	13

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.48. AZELLA Stage III Reassessment Test Results on Literacy at Grade 3**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8243	51	29	21
Hispanic	7224	51	29	20
Non-Hispanic	1019	49	26	25
White	6392	51	29	20
Black or African American	151	66	20	15
Asian	186	33	34	33
American Indian or Alaskan Native	207	51	33	16
Native Hawaiian or Other Pacific Islander	14	50	21	29
Multiple Indication	1026	52	27	21
Special Education	930	71	21	9
Low SES	6090	52	29	20

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.49. AZELLA Stage III Reassessment Test Results on Total Combined at Grade 3**

Group	N	% at Proficiency Level			P
		PE/E	B	I	
All	8243	11	37	43	9
Hispanic	7224	10	38	43	9
Non-Hispanic	1019	18	32	37	13
White	6392	10	38	43	9
Black or African American	151	32	31	26	11
Asian	186	11	22	47	19
American Indian or Alaskan Native	207	11	43	40	7
Native Hawaiian or Other Pacific Islander	14	14	14	50	21
Multiple Indication	1026	10	38	42	10
Special Education	930	19	51	28	2
Low SES	6090	11	38	42	9

\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.50. AZELLA Stage III Reassessment Test Results on Listening at Grade 4**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8245	43	26	31
Hispanic	7078	42	26	31
Non-Hispanic	1167	45	22	33
White	6187	43	27	31
Black or African American	185	58	19	22
Asian	190	33	19	48
American Indian or Alaskan Native	285	51	21	28
Native Hawaiian or Other Pacific Islander	18	44	22	33
Multiple Indication	1018	43	26	31
Special Education	1050	62	22	16
Low SES	6093	42	26	32

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.51. AZELLA Stage III Reassessment Test Results on Speaking at Grade 4**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8245	39	30	31
Hispanic	7078	37	31	32
Non-Hispanic	1167	49	26	25
White	6187	38	30	32
Black or African American	185	57	19	23
Asian	190	42	34	24
American Indian or Alaskan Native	285	40	39	21
Native Hawaiian or Other Pacific Islander	18	67	6	28
Multiple Indication	1018	40	31	29
Special Education	1050	55	28	18
Low SES	6093	38	30	31

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.52. AZELLA Stage III Reassessment Test Results on Reading at Grade 4**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8245	39	44	16
Hispanic	7078	39	45	16
Non-Hispanic	1167	43	40	18
White	6187	40	45	16
Black or African American	185	62	28	10
Asian	190	30	44	26
American Indian or Alaskan Native	285	40	46	13
Native Hawaiian or Other Pacific Islander	18	50	33	17
Multiple Indication	1018	38	48	14
Special Education	1050	64	31	5
Low SES	6093	40	45	15

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.53. AZELLA Stage III Reassessment Test Results on Writing at Grade 4**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8245	42	33	25
Hispanic	7078	42	33	25
Non-Hispanic	1167	47	29	24
White	6187	42	33	24
Black or African American	185	64	18	18
Asian	190	32	37	31
American Indian or Alaskan Native	285	44	33	23
Native Hawaiian or Other Pacific Islander	18	50	22	28
Multiple Indication	1018	42	31	27
Special Education	1050	66	25	9
Low SES	6093	42	33	25

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.54. AZELLA Stage III Reassessment Test Results on Language at Grade 4**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8245	38	42	20
Hispanic	7078	37	42	21
Non-Hispanic	1167	44	38	19
White	6187	38	42	20
Black or African American	185	60	29	11
Asian	190	32	42	26
American Indian or Alaskan Native	285	42	44	15
Native Hawaiian or Other Pacific Islander	18	39	44	17
Multiple Indication	1018	38	42	20
Special Education	1050	64	30	5
Low SES	6093	38	42	20

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.55. AZELLA Stage III Reassessment Test Results on Oral at Grade 4**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8245	37	32	31
Hispanic	7078	36	33	31
Non-Hispanic	1167	44	25	31
White	6187	36	33	31
Black or African American	185	55	22	23
Asian	190	32	26	42
American Indian or Alaskan Native	285	45	28	26
Native Hawaiian or Other Pacific Islander	18	50	22	28
Multiple Indication	1018	39	32	29
Special Education	1050	56	29	15
Low SES	6093	37	32	31

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.56. AZELLA Stage III Reassessment Test Results on Comprehension at Grade 4**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8245	38	39	24
Hispanic	7078	37	39	23
Non-Hispanic	1167	40	34	26
White	6187	38	39	23
Black or African American	185	57	29	14
Asian	190	26	35	39
American Indian or Alaskan Native	285	39	41	20
Native Hawaiian or Other Pacific Islander	18	33	44	22
Multiple Indication	1018	36	41	23
Special Education	1050	62	30	8
Low SES	6093	38	39	23

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.57. AZELLA Stage III Reassessment Test Results on Literacy at Grade 4**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	8245	38	42	19
Hispanic	7078	37	43	19
Non-Hispanic	1167	43	36	21
White	6187	38	43	19
Black or African American	185	62	28	11
Asian	190	30	38	32
American Indian or Alaskan Native	285	41	42	17
Native Hawaiian or Other Pacific Islander	18	44	39	17
Multiple Indication	1018	38	43	19
Special Education	1050	64	30	5
Low SES	6093	38	43	19

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.58. AZELLA Stage III Reassessment Test Results on Total Combined at Grade 4**

Group	N	% at Proficiency Level			P
		PE/E	B	I	
All	8245	14	25	44	17
Hispanic	7078	13	25	45	17
Non-Hispanic	1167	20	23	37	19
White	6187	13	25	45	16
Black or African American	185	38	22	28	12
Asian	190	15	16	38	31
American Indian or Alaskan Native	285	11	31	46	13
Native Hawaiian or Other Pacific Islander	18	11	39	33	17
Multiple Indication	1018	13	24	45	17
Special Education	1050	26	39	31	4
Low SES	6093	14	25	45	17

\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.59. AZELLA Stage III Reassessment Test Results on Listening at Grade 5**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	6418	35	27	38
Hispanic	5478	34	28	38
Non-Hispanic	940	40	22	38
White	4922	34	28	38
Black or African American	164	54	20	26
Asian	139	31	15	54
American Indian or Alaskan Native	273	30	27	42
Native Hawaiian or Other Pacific Islander	20	15	30	55
Multiple Indication	719	35	28	36
Special Education	851	43	29	28
Low SES	4689	36	27	37

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.60. AZELLA Stage III Reassessment Test Results on Speaking at Grade 5**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	6418	42	21	37
Hispanic	5478	40	21	39
Non-Hispanic	940	54	19	27
White	4922	40	21	39
Black or African American	164	63	13	23
Asian	139	55	23	22
American Indian or Alaskan Native	273	38	27	35
Native Hawaiian or Other Pacific Islander	20	40	25	35
Multiple Indication	719	46	21	34
Special Education	851	49	21	30
Low SES	4689	41	20	38

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.61. AZELLA Stage III Reassessment Test Results on Reading at Grade 5**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	6418	35	41	24
Hispanic	5478	34	42	24
Non-Hispanic	940	43	33	25
White	4922	34	42	24
Black or African American	164	62	23	15
Asian	139	33	28	39
American Indian or Alaskan Native	273	25	53	21
Native Hawaiian or Other Pacific Islander	20	15	55	30
Multiple Indication	719	39	38	23
Special Education	851	50	37	13
Low SES	4689	36	42	23

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.62. AZELLA Stage III Reassessment Test Results on Writing at Grade 5**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	6418	32	42	26
Hispanic	5478	30	43	26
Non-Hispanic	940	43	33	25
White	4922	30	43	27
Black or African American	164	61	25	14
Asian	139	34	32	35
American Indian or Alaskan Native	273	26	42	31
Native Hawaiian or Other Pacific Islander	20	20	35	45
Multiple Indication	719	36	41	22
Special Education	851	45	40	15
Low SES	4689	33	43	25

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.63. AZELLA Stage III Reassessment Test Results on Language at Grade 5**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	6418	32	50	18
Hispanic	5478	30	52	18
Non-Hispanic	940	44	39	17
White	4922	30	51	18
Black or African American	164	59	32	9
Asian	139	37	39	24
American Indian or Alaskan Native	273	26	53	21
Native Hawaiian or Other Pacific Islander	20	20	60	20
Multiple Indication	719	37	47	16
Special Education	851	45	47	8
Low SES	4689	32	51	17

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.64. AZELLA Stage III Reassessment Test Results on Oral at Grade 5**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	6418	37	25	38
Hispanic	5478	36	26	38
Non-Hispanic	940	46	18	36
White	4922	36	26	39
Black or African American	164	60	19	21
Asian	139	40	12	47
American Indian or Alaskan Native	273	33	28	39
Native Hawaiian or Other Pacific Islander	20	30	15	55
Multiple Indication	719	40	24	36
Special Education	851	45	27	27
Low SES	4689	37	25	38

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.65. AZELLA Stage III Reassessment Test Results on Comprehension at Grade 5**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	6418	32	35	33
Hispanic	5478	31	37	32
Non-Hispanic	940	40	27	33
White	4922	31	36	33
Black or African American	164	58	22	20
Asian	139	29	21	50
American Indian or Alaskan Native	273	22	45	33
Native Hawaiian or Other Pacific Islander	20	10	50	40
Multiple Indication	719	36	33	31
Special Education	851	46	35	19
Low SES	4689	33	36	31

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.66. AZELLA Stage III Reassessment Test Results on Literacy at Grade 5**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	6418	34	42	25
Hispanic	5478	32	43	25
Non-Hispanic	940	42	33	24
White	4922	32	43	25
Black or African American	164	62	24	14
Asian	139	33	29	37
American Indian or Alaskan Native	273	23	54	23
Native Hawaiian or Other Pacific Islander	20	20	50	30
Multiple Indication	719	39	38	23
Special Education	851	49	39	13
Low SES	4689	34	43	23

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.67. AZELLA Stage III Reassessment Test Results on Total Combined at Grade 5**

Group	N	% at Proficiency Level		
		PE/E	B	I
All	6418	14	19	52
Hispanic	5478	13	19	54
Non-Hispanic	940	24	19	40
White	4922	13	19	54
Black or African American	164	41	21	29
Asian	139	20	14	38
American Indian or Alaskan Native	273	6	19	62
Native Hawaiian or Other Pacific Islander	20	10	15	55
Multiple Indication	719	18	20	49
Special Education	851	18	30	46
Low SES	4689	14	19	53

\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.68. AZELLA Stage IV Reassessment Test Results on Listening at Grade 6**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4312	38	26	36
Hispanic	3658	37	26	37
Non-Hispanic	654	48	22	29
White	3243	37	26	37
Black or African American	100	70	17	13
Asian	90	34	30	36
American Indian or Alaskan Native	189	39	29	33
Native Hawaiian or Other Pacific Islander	11	36	36	27
Multiple Indication	540	41	25	34
Special Education	587	48	24	28
Low SES	3127	39	26	35

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.69. AZELLA Stage IV Reassessment Test Results on Speaking at Grade 6**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
Total	4312	29	19	52
Hispanic	3658	27	19	54
Non-Hispanic	654	41	19	39
White	3243	28	19	53
Black or African American	100	66	9	25
Asian	90	39	22	39
American Indian or Alaskan Native	189	18	24	58
Native Hawaiian or Other Pacific Islander	11	45	9	45
Multiple Indication	540	31	18	51
Special Education	587	26	25	49
Low SES	3127	29	20	51

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.70. AZELLA Stage IV Reassessment Test Results on Reading at Grade 6**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4312	45	36	19
Hispanic	3658	44	37	20
Non-Hispanic	654	52	30	18
White	3243	44	36	20
Black or African American	100	71	19	10
Asian	90	39	34	27
American Indian or Alaskan Native	189	45	40	15
Native Hawaiian or Other Pacific Islander	11	55	36	9
Multiple Indication	540	46	38	16
Special Education	587	59	31	11
Low SES	3127	46	36	19

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.71. AZELLA Stage IV Reassessment Test Results on Writing at Grade 6**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4312	38	50	12
Hispanic	3658	36	51	12
Non-Hispanic	654	47	41	12
White	3243	37	51	12
Black or African American	100	65	30	5
Asian	90	34	50	16
American Indian or Alaskan Native	189	35	51	14
Native Hawaiian or Other Pacific Islander	11	55	27	18
Multiple Indication	540	41	48	11
Special Education	587	50	46	5
Low SES	3127	38	50	12

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.72. AZELLA Stage IV Reassessment Test Results on Language at Grade 6**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4312	33	57	11
Hispanic	3658	31	59	11
Non-Hispanic	654	44	47	9
White	3243	31	58	11
Black or African American	100	68	27	5
Asian	90	38	50	12
American Indian or Alaskan Native	189	25	65	10
Native Hawaiian or Other Pacific Islander	11	55	36	9
Multiple Indication	540	34	57	9
Special Education	587	41	55	4
Low SES	3127	33	57	10

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.73. AZELLA Stage IV Reassessment Test Results on Oral at Grade 6**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4312	32	28	40
Hispanic	3658	30	28	41
Non-Hispanic	654	43	26	31
White	3243	31	28	41
Black or African American	100	69	14	17
Asian	90	37	30	33
American Indian or Alaskan Native	189	24	34	42
Native Hawaiian or Other Pacific Islander	11	45	36	18
Multiple Indication	540	34	28	38
Special Education	587	34	36	30
Low SES	3127	32	28	39

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.74. AZELLA Stage IV Reassessment Test Results on Comprehension at Grade 6**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4312	39	38	23
Hispanic	3658	37	39	24
Non-Hispanic	654	48	31	21
White	3243	37	39	23
Black or African American	100	71	19	10
Asian	90	32	38	30
American Indian or Alaskan Native	189	37	42	22
Native Hawaiian or Other Pacific Islander	11	55	27	18
Multiple Indication	540	44	35	21
Special Education	587	51	37	12
Low SES	3127	40	38	22

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.75. AZELLA Stage IV Reassessment Test Results on Literacy at Grade 6**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4312	42	40	18
Hispanic	3658	40	41	19
Non-Hispanic	654	50	34	17
White	3243	41	41	18
Black or African American	100	69	23	8
Asian	90	33	44	22
American Indian or Alaskan Native	189	41	41	19
Native Hawaiian or Other Pacific Islander	11	55	27	18
Multiple Indication	540	42	42	16
Special Education	587	56	37	7
Low SES	3127	42	40	18

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.76. AZELLA Stage IV Reassessment Test Results on Total Combined at Grade 6**

Group	N	% at Proficiency Level		
		PE/E	B	I
All	4312	15	23	55
Hispanic	3658	13	23	57
Non-Hispanic	654	26	21	44
White	3243	14	23	56
Black or African American	100	50	21	25
Asian	90	18	19	51
American Indian or Alaskan Native	189	8	26	60
Native Hawaiian or Other Pacific Islander	11	27	27	36
Multiple Indication	540	16	21	55
Special Education	587	14	36	49
Low SES	3127	15	23	56
Migrant	4312	15	23	55

\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.77. AZELLA Stage IV Reassessment Test Results on Listening at Grade 7**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4199	32	22	47
Hispanic	3521	30	22	48
Non-Hispanic	678	38	20	42
White	3161	30	22	48
Black or African American	125	58	16	26
Asian	107	36	17	47
American Indian or Alaskan Native	211	34	25	42
Native Hawaiian or Other Pacific Islander	16	31	25	44
Multiple Indication	410	31	21	48
Special Education	475	37	28	36
Low SES	2987	31	22	47

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.78. AZELLA Stage IV Reassessment Test Results on Speaking at Grade 7**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4199	29	17	54
Hispanic	3521	28	17	56
Non-Hispanic	678	38	19	43
White	3161	28	17	56
Black or African American	125	50	17	33
Asian	107	36	27	37
American Indian or Alaskan Native	211	28	20	51
Native Hawaiian or Other Pacific Islander	16	38	19	44
Multiple Indication	410	32	18	50
Special Education	475	25	23	52
Low SES	2987	29	17	54

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.79. AZELLA Stage IV Reassessment Test Results on Reading at Grade 7**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4199	36	38	26
Hispanic	3521	34	39	26
Non-Hispanic	678	42	33	25
White	3161	35	39	26
Black or African American	125	65	23	12
Asian	107	45	29	26
American Indian or Alaskan Native	211	31	49	20
Native Hawaiian or Other Pacific Islander	16	19	38	44
Multiple Indication	410	34	39	27
Special Education	475	50	39	11
Low SES	2987	36	39	25

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.80. AZELLA Stage IV Reassessment Test Results on Writing at Grade 7**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4199	31	54	15
Hispanic	3521	30	55	15
Non-Hispanic	678	39	47	14
White	3161	30	55	15
Black or African American	125	57	37	6
Asian	107	38	44	18
American Indian or Alaskan Native	211	26	66	8
Native Hawaiian or Other Pacific Islander	16	19	69	13
Multiple Indication	410	31	52	17
Special Education	475	43	53	5
Low SES	2987	31	55	14

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.81. AZELLA Stage IV Reassessment Test Results on Language at Grade 7**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4199	29	56	16
Hispanic	3521	27	57	16
Non-Hispanic	678	37	49	13
White	3161	27	57	16
Black or African American	125	59	33	8
Asian	107	39	48	13
American Indian or Alaskan Native	211	22	69	9
Native Hawaiian or Other Pacific Islander	16	19	75	6
Multiple Indication	410	32	51	17
Special Education	475	36	58	6
Low SES	2987	29	56	15

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.82. AZELLA Stage IV Reassessment Test Results on Oral at Grade 7**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4199	28	23	49
Hispanic	3521	27	23	51
Non-Hispanic	678	36	25	39
White	3161	27	23	51
Black or African American	125	54	21	25
Asian	107	38	22	39
American Indian or Alaskan Native	211	25	32	43
Native Hawaiian or Other Pacific Islander	16	44	19	38
Multiple Indication	410	29	23	48
Special Education	475	29	33	38
Low SES	2987	28	23	49

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.83. AZELLA Stage IV Reassessment Test Results on Comprehension at Grade 7**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4199	31	36	33
Hispanic	3521	29	37	33
Non-Hispanic	678	39	32	30
White	3161	30	37	33
Black or African American	125	58	26	16
Asian	107	44	25	31
American Indian or Alaskan Native	211	27	50	24
Native Hawaiian or Other Pacific Islander	16	25	38	38
Multiple Indication	410	31	34	35
Special Education	475	40	44	16
Low SES	2987	31	37	32

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.84. AZELLA Stage IV Reassessment Test Results on Literacy at Grade 7**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	4199	33	46	20
Hispanic	3521	32	48	20
Non-Hispanic	678	40	41	19
White	3161	32	47	20
Black or African American	125	59	34	7
Asian	107	40	39	21
American Indian or Alaskan Native	211	27	60	13
Native Hawaiian or Other Pacific Islander	16	19	56	25
Multiple Indication	410	34	43	23
Special Education	475	46	47	7
Low SES	2987	33	47	20

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.85. AZELLA Stage IV Reassessment Test Results on Total Combined at Grade 7**

Group	N	% at Proficiency Level		
		PE/E	B	I
All	4199	14	17	56
Hispanic	3521	12	17	58
Non-Hispanic	678	21	17	49
White	3161	13	17	57
Black or African American	125	42	17	37
Asian	107	20	21	44
American Indian or Alaskan Native	211	8	17	68
Native Hawaiian or Other Pacific Islander	16	0	25	69
Multiple Indication	410	15	17	53
Special Education	475	10	30	56
Low SES	2987	14	17	57

\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.86. AZELLA Stage IV Reassessment Test Results on Listening at Grade 8**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	3392	28	21	51
Hispanic	2783	27	21	52
Non-Hispanic	609	35	21	44
White	2510	27	21	52
Black or African American	128	51	21	28
Asian	92	27	10	63
American Indian or Alaskan Native	196	23	22	54
Native Hawaiian or Other Pacific Islander	13	31	8	62
Multiple Indication	337	28	27	45
Special Education	312	34	26	40
Low SES	2364	28	21	51
Migrant	3392	28	21	51

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.87. AZELLA Stage IV Reassessment Test Results on Speaking at Grade 8**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	3392	32	18	50
Hispanic	2783	31	17	52
Non-Hispanic	609	38	20	42
White	2510	31	17	51
Black or African American	128	54	20	27
Asian	92	34	18	48
American Indian or Alaskan Native	196	18	17	65
Native Hawaiian or Other Pacific Islander	13	31	23	46
Multiple Indication	337	34	21	44
Special Education	312	27	26	47
Low SES	2364	33	17	50

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.88. AZELLA Stage IV Reassessment Test Results on Reading at Grade 8**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	3392	29	50	21
Hispanic	2783	27	51	22
Non-Hispanic	609	40	42	18
White	2510	28	50	22
Black or African American	128	60	30	10
Asian	92	32	37	32
American Indian or Alaskan Native	196	19	58	23
Native Hawaiian or Other Pacific Islander	13	46	38	15
Multiple Indication	337	28	56	15
Special Education	312	37	54	9
Low SES	2364	30	50	20

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.89. AZELLA Stage IV Reassessment Test Results on Writing at Grade 8**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	3392	27	52	20
Hispanic	2783	25	54	21
Non-Hispanic	609	36	47	17
White	2510	26	53	21
Black or African American	128	54	34	13
Asian	92	32	42	26
American Indian or Alaskan Native	196	18	59	22
Native Hawaiian or Other Pacific Islander	13	23	69	8
Multiple Indication	337	29	53	17
Special Education	312	33	59	8
Low SES	2364	28	52	21

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.90. AZELLA Stage IV Reassessment Test Results on Language at Grade 8**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	3392	27	57	16
Hispanic	2783	25	58	17
Non-Hispanic	609	38	49	12
White	2510	26	58	16
Black or African American	128	59	32	9
Asian	92	37	40	23
American Indian or Alaskan Native	196	15	66	18
Native Hawaiian or Other Pacific Islander	13	31	62	8
Multiple Indication	337	28	60	12
Special Education	312	29	66	5
Low SES	2364	28	56	16

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.91. AZELLA Stage IV Reassessment Test Results on Oral at Grade 8**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	3392	29	20	50
Hispanic	2783	28	20	52
Non-Hispanic	609	38	21	42
White	2510	28	20	52
Black or African American	128	57	13	30
Asian	92	32	10	59
American Indian or Alaskan Native	196	17	24	58
Native Hawaiian or Other Pacific Islander	13	23	38	38
Multiple Indication	337	31	27	43
Special Education	312	29	32	39
Low SES	2364	30	20	51

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.92. AZELLA Stage IV Reassessment Test Results on Comprehension at Grade 8**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	3392	26	38	36
Hispanic	2783	24	39	37
Non-Hispanic	609	37	35	29
White	2510	25	39	36
Black or African American	128	57	25	18
Asian	92	28	25	47
American Indian or Alaskan Native	196	17	43	39
Native Hawaiian or Other Pacific Islander	13	31	31	38
Multiple Indication	337	27	43	30
Special Education	312	32	47	21
Low SES	2364	27	38	36

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.93. AZELLA Stage IV Reassessment Test Results on Literacy at Grade 8**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	3392	25	55	20
Hispanic	2783	23	57	20
Non-Hispanic	609	37	46	17
White	2510	24	56	20
Black or African American	128	57	34	9
Asian	92	33	38	29
American Indian or Alaskan Native	196	15	64	21
Native Hawaiian or Other Pacific Islander	13	31	62	8
Multiple Indication	337	25	60	15
Special Education	312	32	59	9
Low SES	2364	26	55	19

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.94. AZELLA Stage IV Reassessment Test Results on Total Combined at Grade 8**

Group	N	% at Proficiency Level		
		PE/E	B	I
All	3392	13	15	56
Hispanic	2783	11	14	58
Non-Hispanic	609	21	17	50
White	2510	12	14	57
Black or African American	128	41	19	33
Asian	92	18	17	37
American Indian or Alaskan Native	196	5	11	67
Native Hawaiian or Other Pacific Islander	13	8	15	69
Multiple Indication	337	12	16	60
Special Education	312	6	26	62
Low SES	2364	14	14	56

\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.95. AZELLA Stage V Reassessment Test Results on Listening at Grade 9**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	2902	44	22	33
Hispanic	2184	42	23	35
Non-Hispanic	718	52	19	29
White	2051	44	22	34
Black or African American	234	71	14	15
Asian	104	38	22	40
American Indian or Alaskan Native	112	24	36	40
Native Hawaiian or Other Pacific Islander	12	25	25	50
Multiple Indication	257	42	25	33
Special Education	168	30	32	38
Low SES	1701	42	23	36

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.96. AZELLA Stage V Reassessment Test Results on Speaking at Grade 9**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	2902	43	14	44
Hispanic	2184	41	13	45
Non-Hispanic	718	47	14	38
White	2051	43	13	45
Black or African American	234	64	12	24
Asian	104	31	23	46
American Indian or Alaskan Native	112	18	20	63
Native Hawaiian or Other Pacific Islander	12	17	25	58
Multiple Indication	257	41	15	44
Special Education	168	28	17	55
Low SES	1701	41	13	46

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.97. AZELLA Stage V Reassessment Test Results on Reading at Grade 9**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	2902	50	37	13
Hispanic	2184	47	39	14
Non-Hispanic	718	58	32	10
White	2051	47	39	14
Black or African American	234	75	21	4
Asian	104	41	43	15
American Indian or Alaskan Native	112	46	47	6
Native Hawaiian or Other Pacific Islander	12	33	50	17
Multiple Indication	257	53	33	15
Special Education	168	64	30	6
Low SES	1701	50	38	12

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.98. AZELLA Stage V Reassessment Test Results on Writing at Grade 9**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	2902	45	44	11
Hispanic	2184	43	46	11
Non-Hispanic	718	53	37	11
White	2051	44	45	11
Black or African American	234	70	25	6
Asian	104	32	53	15
American Indian or Alaskan Native	112	35	53	13
Native Hawaiian or Other Pacific Islander	12	25	67	8
Multiple Indication	257	48	41	11
Special Education	168	42	53	5
Low SES	1701	45	45	11

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.99. AZELLA Stage V Reassessment Test Results on Language at Grade 9**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	2902	45	44	11
Hispanic	2184	43	46	11
Non-Hispanic	718	53	37	10
White	2051	44	45	12
Black or African American	234	71	24	5
Asian	104	31	56	13
American Indian or Alaskan Native	112	30	60	10
Native Hawaiian or Other Pacific Islander	12	25	67	8
Multiple Indication	257	46	43	12
Special Education	168	44	52	4
Low SES	1701	45	45	11

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.100. AZELLA Stage V Reassessment Test Results on Oral at Grade 9**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	2902	44	25	31
Hispanic	2184	42	25	33
Non-Hispanic	718	50	23	27
White	2051	43	25	32
Black or African American	234	70	16	14
Asian	104	35	33	33
American Indian or Alaskan Native	112	17	43	40
Native Hawaiian or Other Pacific Islander	12	25	25	50
Multiple Indication	257	43	25	32
Special Education	168	29	34	37
Low SES	1701	42	24	33

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.101. AZELLA Stage V Reassessment Test Results on Comprehension at Grade 9**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	2902	50	31	19
Hispanic	2184	48	33	20
Non-Hispanic	718	58	27	15
White	2051	48	32	19
Black or African American	234	76	18	6
Asian	104	44	31	25
American Indian or Alaskan Native	112	42	46	13
Native Hawaiian or Other Pacific Islander	12	42	33	25
Multiple Indication	257	49	30	22
Special Education	168	60	28	12
Low SES	1701	49	33	18

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.102. AZELLA Stage V Reassessment Test Results on Literacy at Grade 9**

Group	N	% at Proficiency Levels		
		PE/E/B	I	P
All	2902	50	39	11
Hispanic	2184	48	40	12
Non-Hispanic	718	56	35	10
White	2051	48	40	12
Black or African American	234	74	22	4
Asian	104	37	47	16
American Indian or Alaskan Native	112	37	56	7
Native Hawaiian or Other Pacific Islander	12	33	58	8
Multiple Indication	257	52	36	12
Special Education	168	58	37	5
Low SES	1701	49	40	11

\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.103. AZELLA Stage V Reassessment Test Results on Total Combined at Grade 9**

Group	N	% at Proficiency Level		
		PE/E	B	I
All	2902	24	24	43
Hispanic	2184	21	24	45
Non-Hispanic	718	32	22	37
White	2051	22	24	45
Black or African American	234	52	21	24
Asian	104	13	24	47
American Indian or Alaskan Native	112	7	25	62
Native Hawaiian or Other Pacific Islander	12	8	25	58
Multiple Indication	257	22	28	40
Special Education	168	13	39	45
Low SES	1701	23	24	45

\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.104. AZELLA Stage V Reassessment Test Results on Listening at Grade 10**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	2298	36	23	41
Hispanic	1771	35	23	42
Non-Hispanic	527	39	21	41
White	1707	36	23	41
Black or African American	150	52	17	31
Asian	89	22	24	54
American Indian or Alaskan Native	79	28	23	49
Native Hawaiian or Other Pacific Islander	2	*	*	*
Multiple Indication	196	37	23	40
Special Education	116	35	25	40
Low SES	1397	36	23	41

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.

\*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.105. AZELLA Stage V Reassessment Test Results on Speaking at Grade 10**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	2298	33	17	51
Hispanic	1771	33	15	52
Non-Hispanic	527	32	23	45
White	1707	32	16	52
Black or African American	150	40	26	34
Asian	89	29	21	49
American Indian or Alaskan Native	79	19	18	63
Native Hawaiian or Other Pacific Islander	2	*	*	*
Multiple Indication	196	40	17	42
Special Education	116	22	19	59
Low SES	1397	34	15	51

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.

\*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.106. AZELLA Stage V Reassessment Test Results on Reading at Grade 10**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	2298	39	44	17
Hispanic	1771	37	44	19
Non-Hispanic	527	44	43	13
White	1707	37	45	17
Black or African American	150	53	36	11
Asian	89	21	49	29
American Indian or Alaskan Native	79	39	54	6
Native Hawaiian or Other Pacific Islander	2	*	*	*
Multiple Indication	196	46	35	19
Special Education	116	59	37	3
Low SES	1397	40	44	16

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.

\*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.107. AZELLA Stage V Reassessment Test Results on Writing at Grade 10**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	2298	34	51	15
Hispanic	1771	34	52	15
Non-Hispanic	527	35	48	16
White	1707	34	52	14
Black or African American	150	48	40	12
Asian	89	24	47	29
American Indian or Alaskan Native	79	25	65	10
Native Hawaiian or Other Pacific Islander	2	*	*	*
Multiple Indication	196	34	49	16
Special Education	116	40	50	10
Low SES	1397	35	51	14

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.

\*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.108. AZELLA Stage V Reassessment Test Results on Language at Grade 10**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	2298	34	52	13
Hispanic	1771	34	53	13
Non-Hispanic	527	36	50	14
White	1707	34	53	13
Black or African American	150	51	37	12
Asian	89	24	51	26
American Indian or Alaskan Native	79	20	71	9
Native Hawaiian or Other Pacific Islander	2	*	*	*
Multiple Indication	196	34	52	14
Special Education	116	34	59	6
Low SES	1397	35	52	13

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.

\*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.109. AZELLA Stage V Reassessment Test Results on Oral at Grade 10**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	2298	34	27	39
Hispanic	1771	33	27	39
Non-Hispanic	527	37	26	37
White	1707	34	27	39
Black or African American	150	53	19	29
Asian	89	28	19	53
American Indian or Alaskan Native	79	19	41	41
Native Hawaiian or Other Pacific Islander	2	*	*	*
Multiple Indication	196	36	29	35
Special Education	116	28	35	36
Low SES	1397	34	27	39

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.

\*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.110. AZELLA Stage V Reassessment Test Results on Comprehension at Grade 10**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	2298	39	36	25
Hispanic	1771	38	37	26
Non-Hispanic	527	44	34	23
White	1707	38	38	25
Black or African American	150	53	29	18
Asian	89	25	31	44
American Indian or Alaskan Native	79	35	47	18
Native Hawaiian or Other Pacific Islander	2	*	*	*
Multiple Indication	196	48	27	25
Special Education	116	53	36	11
Low SES	1397	39	37	24

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.111. AZELLA Stage V Reassessment Test Results on Literacy at Grade 10**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	2298	37	48	15
Hispanic	1771	36	48	16
Non-Hispanic	527	40	46	14
White	1707	36	49	14
Black or African American	150	51	39	10
Asian	89	20	49	30
American Indian or Alaskan Native	79	27	67	6
Native Hawaiian or Other Pacific Islander	2	*	*	*
Multiple Indication	196	45	35	20
Special Education	116	53	45	3
Low SES	1397	38	48	14

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.112. AZELLA Stage V Reassessment Test Results on Total Combined at Grade 10**

Group	N	**% at Proficiency Level			P
		PE/E	B	I	
All	2298	13	22	53	12
Hispanic	1771	13	22	54	12
Non-Hispanic	527	14	25	49	12
White	1707	13	22	54	11
Black or African American	150	23	26	43	8
Asian	89	8	18	47	27
American Indian or Alaskan Native	79	1	24	70	5
Native Hawaiian or Other Pacific Islander	2	*	*	*	*
Multiple Indication	196	17	27	42	14
Special Education	116	11	32	54	3
Low SES	1397	14	22	53	11

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.113 AZELLA Stage V Reassessment Test Results on Listening at Grade 11**

Group	N	***% at Proficiency Levels		
		PE/E/B	I	P
All	1503	31	20	49
Hispanic	1120	32	20	48
Non-Hispanic	383	27	22	51
White	1074	31	20	48
Black or African American	104	30	34	37
Asian	78	24	15	60
American Indian or Alaskan Native	64	19	14	67
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	123	33	17	50
Special Education	70	24	27	49
Low SES	945	32	21	47

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.114. AZELLA Stage V Reassessment Test Results on Speaking at Grade 11**

Group	N	***% at Proficiency Levels		
		PE/E/B	I	P
All	1503	28	17	55
Hispanic	1120	29	17	54
Non-Hispanic	383	23	17	60
White	1074	29	17	54
Black or African American	104	28	19	53
Asian	78	23	17	60
American Indian or Alaskan Native	64	13	11	77
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	123	28	20	52
Special Education	70	14	26	60
Low SES	945	30	16	54

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.115. AZELLA Stage V Reassessment Test Results on Reading at Grade 11**

Group	N	***% at Proficiency Levels		
		PE/E/B	I	P
All	1503	32	46	22
Hispanic	1120	32	45	23
Non-Hispanic	383	33	50	17
White	1074	32	45	24
Black or African American	104	42	44	13
Asian	78	23	49	28
American Indian or Alaskan Native	64	31	59	9
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	123	27	54	19
Special Education	70	49	40	11
Low SES	945	34	45	21

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.116. AZELLA Stage V Reassessment Test Results on Writing at Grade 11**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	1503	28	55	17
Hispanic	1120	28	55	17
Non-Hispanic	383	27	55	18
White	1074	28	55	17
Black or African American	104	36	51	13
Asian	78	24	53	23
American Indian or Alaskan Native	64	20	64	16
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	123	31	52	17
Special Education	70	31	63	6
Low SES	945	30	53	17

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.

\*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.117. AZELLA Stage V Reassessment Test Results on Language at Grade 11**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	1503	29	55	16
Hispanic	1120	29	55	16
Non-Hispanic	383	27	57	16
White	1074	28	55	16
Black or African American	104	38	49	13
Asian	78	22	58	21
American Indian or Alaskan Native	64	17	66	17
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	123	30	54	15
Special Education	70	30	60	10
Low SES	945	30	54	16

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.

\*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.118. AZELLA Stage V Reassessment Test Results on Oral at Grade 11**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	1503	29	26	45
Hispanic	1120	29	26	44
Non-Hispanic	383	26	26	48
White	1074	29	26	44
Black or African American	104	31	31	38
Asian	78	26	19	55
American Indian or Alaskan Native	64	14	23	63
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	123	32	24	44
Special Education	70	20	34	46
Low SES	945	30	27	43

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.

\*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.119. AZELLA Stage V Reassessment Test Results on Comprehension at Grade 11**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	1503	31	39	30
Hispanic	1120	31	38	32
Non-Hispanic	383	31	43	26
White	1074	31	37	32
Black or African American	104	40	43	16
Asian	78	24	37	38
American Indian or Alaskan Native	64	25	45	30
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	123	25	50	24
Special Education	70	39	41	20
Low SES	945	32	38	29

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.120. AZELLA Stage V Reassessment Test Results on Literacy at Grade 11**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	1503	29	52	19
Hispanic	1120	29	52	19
Non-Hispanic	383	30	52	18
White	1074	30	51	20
Black or African American	104	39	47	13
Asian	78	23	54	23
American Indian or Alaskan Native	64	23	64	13
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	123	24	59	17
Special Education	70	40	53	7
Low SES	945	31	51	18

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.121. AZELLA Stage V Reassessment Test Results on Total Combined at Grade 11**

Group	N	**% at Proficiency Level			P
		PE/E	B	I	
All	1503	10	18	58	15
Hispanic	1120	9	18	57	15
Non-Hispanic	383	10	16	59	14
White	1074	9	19	57	16
Black or African American	104	16	21	54	9
Asian	78	10	8	64	18
American Indian or Alaskan Native	64	2	20	67	11
Native Hawaiian or Other Pacific Islander	7	*	*	*	*
Multiple Indication	123	11	15	60	15
Special Education	70	10	20	64	6
Low SES	945	11	18	57	14

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

**Table C.122. AZELLA Stage V Reassessment Test Results on Listening at Grade 12**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	965	28	23	49
Hispanic	684	30	23	47
Non-Hispanic	281	24	22	54
White	668	30	22	48
Black or African American	69	33	28	39
Asian	45	20	13	67
American Indian or Alaskan Native	44	7	27	66
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	100	24	25	51
Special Education	63	33	25	41
Low SES	614	28	23	49

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.

\*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.123. AZELLA Stage V Reassessment Test Results on Speaking at Grade 12**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	965	30	16	54
Hispanic	684	33	15	53
Non-Hispanic	281	23	19	58
White	668	32	15	53
Black or African American	69	22	23	55
Asian	45	24	18	58
American Indian or Alaskan Native	44	18	7	75
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	100	28	24	48
Special Education	63	30	17	52
Low SES	614	32	15	53

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.

\*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.124. AZELLA Stage V Reassessment Test Results on Reading at Grade 12**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	965	32	44	24
Hispanic	684	35	40	26
Non-Hispanic	281	27	54	19
White	668	34	41	25
Black or African American	69	38	43	19
Asian	45	20	56	24
American Indian or Alaskan Native	44	25	59	16
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	100	30	48	22
Special Education	63	60	29	11
Low SES	614	32	44	23

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.

\*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.125. AZELLA Stage V Reassessment Test Results on Writing at Grade 12**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	965	30	51	19
Hispanic	684	32	49	19
Non-Hispanic	281	23	56	21
White	668	31	50	18
Black or African American	69	32	48	20
Asian	45	9	64	27
American Indian or Alaskan Native	44	25	55	20
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	100	27	54	19
Special Education	63	56	40	5
Low SES	614	29	51	20

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.126. AZELLA Stage V Reassessment Test Results on Language at Grade 12**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	965	29	54	17
Hispanic	684	32	51	17
Non-Hispanic	281	22	62	16
White	668	31	53	16
Black or African American	69	29	58	13
Asian	45	11	64	24
American Indian or Alaskan Native	44	14	64	23
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	100	30	59	11
Special Education	63	43	51	6
Low SES	614	29	53	17

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.127. AZELLA Stage V Reassessment Test Results on Oral at Grade 12**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	965	28	29	43
Hispanic	684	30	30	40
Non-Hispanic	281	23	28	49
White	668	30	28	41
Black or African American	69	33	35	32
Asian	45	20	20	60
American Indian or Alaskan Native	44	14	20	66
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	100	20	34	46
Special Education	63	32	35	33
Low SES	614	29	29	42

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.128. AZELLA Stage V Reassessment Test Results on Comprehension at Grade 12**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	965	32	35	33
Hispanic	684	35	31	34
Non-Hispanic	281	25	44	31
White	668	35	33	32
Black or African American	69	35	36	29
Asian	45	16	47	38
American Indian or Alaskan Native	44	16	48	36
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	100	26	38	36
Special Education	63	49	37	14
Low SES	614	32	34	34

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.129. AZELLA Stage V Reassessment Test Results on Literacy at Grade 12**

Group	N	**% at Proficiency Levels		
		PE/E/B	I	P
All	965	32	48	21
Hispanic	684	35	43	22
Non-Hispanic	281	23	60	17
White	668	35	44	21
Black or African American	69	30	49	20
Asian	45	9	69	22
American Indian or Alaskan Native	44	16	70	14
Native Hawaiian or Other Pacific Islander	7	*	*	*
Multiple Indication	100	31	50	19
Special Education	63	59	35	6
Low SES	614	32	46	21

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E/B = Pre-Emergent/Emergent/Basic, I = Intermediate, P = Proficient

**Table C.130. AZELLA Stage V Reassessment Test Results on Total Combined at Grade 12**

Group	N	**% at Proficiency Level			P
		PE/E	B	I	
All	965	8	21	55	16
Hispanic	684	9	24	50	17
Non-Hispanic	281	7	14	67	12
White	668	9	23	51	17
Black or African American	69	9	19	62	10
Asian	45	4	7	71	18
American Indian or Alaskan Native	44	2	11	77	9
Native Hawaiian or Other Pacific Islander	7	*	*	*	*
Multiple Indication	100	7	19	62	12
Special Education	63	13	30	51	6
Low SES	614	8	21	54	17

\* Statistics for subgroups with less than 11 students are omitted in compliance with FERPA regulations and replaced with an '\*'.  
 \*\*PE/E = Pre-Emergent/Emergent, B = Basic, I = Intermediate, P = Proficient

In the score distribution tables below, raw score, scale score, frequency of students who obtained the scale score (Freq.), percent of student who obtained the scale score (%), cumulative frequency (Cum. Freq.), and cumulative percent (Cum. %) are presented for the total group of students. For the Stages I through V assessments, the lowest scale scores for the Basic, Intermediate, and Proficient level are in bold. NOTE that the scale scores in bold may not be exact proficiency level cuts. For the exact proficiency level cuts for the Stages I through V assessments, please refer to table 11.1.

**Table C.131. AZELLA Stage I Reassessment Form Frequency Distribution at Kindergarten**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	0	0.00	0	0.00	50	2374	374	2.98	10207	81.20
1	2000	1	0.01	1	0.01	51	2381	357	2.84	10564	84.04
2	2035	0	0.00	1	0.01	52	2389	308	2.45	10872	86.49
3	2066	2	0.02	3	0.02	53	2397	305	2.43	11177	88.92
4	2089	3	0.02	6	0.05	54	2405	261	2.08	11438	90.99
5	2107	1	0.01	7	0.06	55	2414	259	2.06	11697	93.05
6	2122	9	0.07	16	0.13	56	2424	207	1.65	11904	94.70
7	2135	3	0.02	19	0.15	57	2435	182	1.45	12086	96.15
8	2146	13	0.10	32	0.25	58	2448	142	1.13	12228	97.28
9	2156	10	0.08	42	0.33	59	2462	138	1.10	12366	98.38
10	2165	18	0.14	60	0.48	60	2479	88	0.70	12454	99.08
11	2173	31	0.25	91	0.72	61	2500	53	0.42	12507	99.50
12	2180	29	0.23	120	0.95	62	2529	41	0.33	12548	99.82
13	2187	40	0.32	160	1.27	63	2577	17	0.14	12565	99.96
14	2194	42	0.33	202	1.61	64	3000	5	0.04	12570	100.00
15	2200	70	0.56	272	2.16						
16	2206	57	0.45	329	2.62						
17	2212	89	0.71	418	3.33						
18	2217	87	0.69	505	4.02						
19	2222	108	0.86	613	4.88						
20	2227	118	0.94	731	5.82						
21	2232	140	1.11	871	6.93						
22	2237	162	1.29	1033	8.22						
<b>23</b>	<b>2241</b>	<b>182</b>	<b>1.45</b>	<b>1215</b>	<b>9.67</b>						
24	2246	206	1.64	1421	11.30						
25	2250	219	1.74	1640	13.05						
26	2255	222	1.77	1862	14.81						
27	2259	221	1.76	2083	16.57						
28	2264	267	2.12	2350	18.70						
29	2268	278	2.21	2628	20.91						
30	2272	303	2.41	2931	23.32						
31	2277	312	2.48	3243	25.80						
32	2281	288	2.29	3531	28.09						
<b>33</b>	<b>2285</b>	<b>331</b>	<b>2.63</b>	<b>3862</b>	<b>30.72</b>						
34	2290	318	2.53	4180	33.25						
35	2294	353	2.81	4533	36.06						
36	2299	354	2.82	4887	38.88						
37	2303	377	3.00	5264	41.88						
38	2308	375	2.98	5639	44.86						
39	2312	360	2.86	5999	47.72						
40	2317	353	2.81	6352	50.53						
41	2322	388	3.09	6740	53.62						
<b>42</b>	<b>2327</b>	<b>392</b>	<b>3.12</b>	<b>7132</b>	<b>56.74</b>						
43	2332	399	3.17	7531	59.91						
44	2338	408	3.25	7939	63.16						
45	2343	373	2.97	8312	66.13						
46	2349	395	3.14	8707	69.27						
47	2355	377	3.00	9084	72.27						
48	2361	381	3.03	9465	75.30						
49	2367	368	2.93	9833	78.23						

**Table C.131. AZELLA Stage II Reassessment Form Frequency Distribution at Grade 1**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	0	0.00	0	0.00	50	2313	91	1.00	976	10.69
1	2043	0	0.00	0	0.00	51	2315	92	1.01	1068	11.70
2	2088	0	0.00	0	0.00	52	2317	132	1.45	1200	13.14
3	2115	0	0.00	0	0.00	53	2319	102	1.12	1302	14.26
4	2134	0	0.00	0	0.00	54	2321	119	1.30	1421	15.56
5	2148	0	0.00	0	0.00	55	2323	150	1.64	1571	17.20
6	2160	1	0.01	1	0.01	56	2325	131	1.43	1702	18.64
7	2171	0	0.00	1	0.01	57	2327	136	1.49	1838	20.13
8	2179	1	0.01	2	0.02	58	2329	137	1.50	1975	21.63
9	2187	0	0.00	2	0.02	59	2331	151	1.65	2126	23.28
10	2194	0	0.00	2	0.02	60	2333	162	1.77	2288	25.05
11	2201	1	0.01	3	0.03	61	2334	175	1.92	2463	26.97
12	2207	0	0.00	3	0.03	62	2336	196	2.15	2659	29.12
13	2212	0	0.00	3	0.03	63	2338	188	2.06	2847	31.18
14	2217	1	0.01	4	0.04	<b>64</b>	<b>2340</b>	<b>194</b>	<b>2.12</b>	<b>3041</b>	<b>33.30</b>
15	2222	0	0.00	4	0.04	65	2342	177	1.94	3218	35.24
16	2226	0	0.00	4	0.04	66	2344	173	1.89	3391	37.13
17	2230	2	0.02	6	0.07	67	2346	184	2.01	3575	39.15
18	2234	3	0.03	9	0.10	68	2348	164	1.80	3739	40.94
19	2238	1	0.01	10	0.11	69	2350	161	1.76	3900	42.71
20	2241	2	0.02	12	0.13	70	2351	170	1.86	4070	44.57
21	2245	2	0.02	14	0.15	71	2353	171	1.87	4241	46.44
22	2248	4	0.04	18	0.20	72	2355	169	1.85	4410	48.29
23	2251	0	0.00	18	0.20	73	2357	180	1.97	4590	50.26
24	2254	6	0.07	24	0.26	74	2359	176	1.93	4766	52.19
25	2257	6	0.07	30	0.33	75	2361	168	1.84	4934	54.03
26	2260	12	0.13	42	0.46	76	2363	181	1.98	5115	56.01
27	2262	4	0.04	46	0.50	77	2365	179	1.96	5294	57.97
28	2265	7	0.08	53	0.58	78	2366	151	1.65	5445	59.63
29	2268	7	0.08	60	0.66	79	2368	159	1.74	5604	61.37
30	2270	16	0.18	76	0.83	80	2370	169	1.85	5773	63.22
31	2273	8	0.09	84	0.92	81	2372	133	1.46	5906	64.67
32	2275	23	0.25	107	1.17	82	2374	145	1.59	6051	66.26
33	2277	10	0.11	117	1.28	83	2376	134	1.47	6185	67.73
34	2280	20	0.22	137	1.50	84	2378	150	1.64	6335	69.37
35	2282	21	0.23	158	1.73	85	2379	114	1.25	6449	70.62
36	2284	29	0.32	187	2.05	86	2381	111	1.22	6560	71.84
37	2286	24	0.26	211	2.31	87	2383	101	1.11	6661	72.94
38	2288	32	0.35	243	2.66	<b>88</b>	<b>2385</b>	<b>138</b>	<b>1.51</b>	<b>6799</b>	<b>74.45</b>
39	2291	35	0.38	278	3.04	89	2387	110	1.20	6909	75.66
40	2293	39	0.43	317	3.47	90	2389	127	1.39	7036	77.05
<b>41</b>	<b>2295</b>	<b>42</b>	<b>0.46</b>	<b>359</b>	<b>3.93</b>	91	2391	81	0.89	7117	77.93
42	2297	59	0.65	418	4.58	92	2393	109	1.19	7226	79.13
43	2299	56	0.61	474	5.19	93	2394	90	0.99	7316	80.11
44	2301	52	0.57	526	5.76	94	2396	101	1.11	7417	81.22
45	2303	62	0.68	588	6.44	95	2398	83	0.91	7500	82.13
46	2305	66	0.72	654	7.16	96	2400	88	0.96	7588	83.09
47	2307	59	0.65	713	7.81	97	2402	86	0.94	7674	84.03
48	2309	75	0.82	788	8.63	98	2404	84	0.92	7758	84.95
49	2311	97	1.06	885	9.69	99	2406	69	0.76	7827	85.71

**Table C.131. AZELLA Stage II Reassessment Form Frequency Distribution at Grade 1**

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100	2408	79	0.87	7906	86.57
101	2410	70	0.77	7976	87.34
102	2412	64	0.70	8040	88.04
103	2414	64	0.70	8104	88.74
104	2416	70	0.77	8174	89.51
105	2418	51	0.56	8225	90.07
106	2420	59	0.65	8284	90.71
107	2422	50	0.55	8334	91.26
108	2425	46	0.50	8380	91.77
109	2427	53	0.58	8433	92.35
110	2429	59	0.65	8492	92.99
111	2431	41	0.45	8533	93.44
112	2434	44	0.48	8577	93.92
113	2436	50	0.55	8627	94.47
114	2438	31	0.34	8658	94.81
115	2441	46	0.50	8704	95.31
116	2443	42	0.46	8746	95.77
117	2446	41	0.45	8787	96.22
118	2448	33	0.36	8820	96.58
119	2451	32	0.35	8852	96.93
120	2454	20	0.22	8872	97.15
121	2456	22	0.24	8894	97.39
122	2459	23	0.25	8917	97.65
123	2462	29	0.32	8946	97.96
124	2465	27	0.30	8973	98.26
125	2468	16	0.18	8989	98.43
126	2472	19	0.21	9008	98.64
127	2475	9	0.10	9017	98.74
128	2479	13	0.14	9030	98.88
129	2482	19	0.21	9049	99.09
130	2486	13	0.14	9062	99.23
131	2490	15	0.16	9077	99.40
132	2495	12	0.13	9089	99.53
133	2499	8	0.09	9097	99.62
134	2504	5	0.05	9102	99.67
135	2509	4	0.04	9106	99.72
136	2515	6	0.07	9112	99.78
137	2521	5	0.05	9117	99.84
138	2528	2	0.02	9119	99.86
139	2535	4	0.04	9123	99.90
140	2543	3	0.03	9126	99.93
141	2552	3	0.03	9129	99.97
142	2562	1	0.01	9130	99.98
143	2575	0	0.00	9130	99.98
144	2590	0	0.00	9130	99.98
145	2609	0	0.00	9130	99.98
146	2635	0	0.00	9130	99.98
147	2680	1	0.01	9131	99.99
148	3000	1	0.01	9132	100.00

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**Table C.132. AZELLA Stage II Reassessment Form Frequency Distribution at Grade 2**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	0	0.00	0	0.00	50	2313	26	0.29	345	3.82
1	2043	0	0.00	0	0.00	51	2315	28	0.31	373	4.13
2	2088	0	0.00	0	0.00	52	2317	37	0.41	410	4.54
3	2115	0	0.00	0	0.00	53	2319	27	0.30	437	4.84
4	2134	0	0.00	0	0.00	54	2321	31	0.34	468	5.18
5	2148	0	0.00	0	0.00	55	2323	47	0.52	515	5.70
6	2160	0	0.00	0	0.00	56	2325	49	0.54	564	6.24
7	2171	0	0.00	0	0.00	57	2327	58	0.64	622	6.89
8	2179	0	0.00	0	0.00	58	2329	41	0.45	663	7.34
9	2187	0	0.00	0	0.00	59	2331	53	0.59	716	7.93
10	2194	0	0.00	0	0.00	60	2333	52	0.58	768	8.50
11	2201	1	0.01	1	0.01	61	2334	51	0.56	819	9.07
12	2207	0	0.00	1	0.01	62	2336	61	0.68	880	9.74
13	2212	0	0.00	1	0.01	<b>63</b>	<b>2338</b>	<b>56</b>	<b>0.62</b>	<b>936</b>	<b>10.36</b>
14	2217	0	0.00	1	0.01	64	2340	72	0.80	1008	11.16
15	2222	0	0.00	1	0.01	65	2342	65	0.72	1073	11.88
16	2226	0	0.00	1	0.01	66	2344	84	0.93	1157	12.81
17	2230	1	0.01	2	0.02	67	2346	76	0.84	1233	13.65
18	2234	0	0.00	2	0.02	68	2348	91	1.01	1324	14.66
19	2238	0	0.00	2	0.02	69	2350	70	0.77	1394	15.43
20	2241	4	0.04	6	0.07	70	2351	86	0.95	1480	16.38
21	2245	0	0.00	6	0.07	71	2353	85	0.94	1565	17.32
22	2248	3	0.03	9	0.10	72	2355	86	0.95	1651	18.28
23	2251	2	0.02	11	0.12	73	2357	81	0.90	1732	19.17
24	2254	5	0.06	16	0.18	74	2359	86	0.95	1818	20.12
25	2257	4	0.04	20	0.22	75	2361	91	1.01	1909	21.13
26	2260	4	0.04	24	0.27	76	2363	91	1.01	2000	22.14
27	2262	0	0.00	24	0.27	77	2365	105	1.16	2105	23.30
28	2265	13	0.14	37	0.41	78	2366	97	1.07	2202	24.37
29	2268	2	0.02	39	0.43	79	2368	99	1.10	2301	25.47
30	2270	9	0.10	48	0.53	80	2370	108	1.20	2409	26.67
31	2273	4	0.04	52	0.58	81	2372	86	0.95	2495	27.62
32	2275	13	0.14	65	0.72	82	2374	105	1.16	2600	28.78
33	2277	3	0.03	68	0.75	83	2376	95	1.05	2695	29.83
34	2280	9	0.10	77	0.85	84	2378	103	1.14	2798	30.97
35	2282	8	0.09	85	0.94	85	2379	87	0.96	2885	31.93
36	2284	9	0.10	94	1.04	86	2381	81	0.90	2966	32.83
37	2286	4	0.04	98	1.08	<b>87</b>	<b>2383</b>	<b>119</b>	<b>1.32</b>	<b>3085</b>	<b>34.15</b>
38	2288	16	0.18	114	1.26	88	2385	110	1.22	3195	35.37
39	2291	12	0.13	126	1.39	89	2387	106	1.17	3301	36.54
40	2293	15	0.17	141	1.56	90	2389	105	1.16	3406	37.70
41	2295	10	0.11	151	1.67	91	2391	97	1.07	3503	38.78
42	2297	27	0.30	178	1.97	92	2393	101	1.12	3604	39.89
43	2299	7	0.08	185	2.05	93	2394	127	1.41	3731	41.30
44	2301	18	0.20	203	2.25	94	2396	115	1.27	3846	42.57
45	2303	16	0.18	219	2.42	95	2398	122	1.35	3968	43.92
46	2305	22	0.24	241	2.67	96	2400	119	1.32	4087	45.24
47	2307	22	0.24	263	2.91	97	2402	124	1.37	4211	46.61
48	2309	30	0.33	293	3.24	98	2404	101	1.12	4312	47.73
49	2311	26	0.29	319	3.53	99	2406	116	1.28	4428	49.01

**Table C.132. AZELLA Stage II Reassessment Form Frequency Distribution at Grade 2**

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100	2408	117	1.30	4545	50.31
101	2410	134	1.48	4679	51.79
102	2412	140	1.55	4819	53.34
103	2414	122	1.35	4941	54.69
104	2416	138	1.53	5079	56.22
105	2418	155	1.72	5234	57.94
106	2420	131	1.45	5365	59.39
107	2422	143	1.58	5508	60.97
108	2425	136	1.51	5644	62.48
109	2427	129	1.43	5773	63.90
<b>110</b>	<b>2429</b>	<b>121</b>	<b>1.34</b>	<b>5894</b>	<b>65.24</b>
111	2431	144	1.59	6038	66.84
112	2434	140	1.55	6178	68.39
113	2436	112	1.24	6290	69.63
114	2438	127	1.41	6417	71.03
115	2441	151	1.67	6568	72.70
116	2443	160	1.77	6728	74.47
117	2446	139	1.54	6867	76.01
118	2448	129	1.43	6996	77.44
119	2451	135	1.49	7131	78.94
120	2454	113	1.25	7244	80.19
121	2456	124	1.37	7368	81.56
122	2459	131	1.45	7499	83.01
123	2462	145	1.61	7644	84.61
124	2465	122	1.35	7766	85.96
125	2468	117	1.30	7883	87.26
126	2472	125	1.38	8008	88.64
127	2475	101	1.12	8109	89.76
128	2479	97	1.07	8206	90.83
129	2482	89	0.99	8295	91.82
130	2486	98	1.08	8393	92.90
131	2490	96	1.06	8489	93.97
132	2495	97	1.07	8586	95.04
133	2499	84	0.93	8670	95.97
134	2504	72	0.80	8742	96.77
135	2509	55	0.61	8797	97.38
136	2515	42	0.46	8839	97.84
137	2521	41	0.45	8880	98.30
138	2528	37	0.41	8917	98.70
139	2535	29	0.32	8946	99.03
140	2543	28	0.31	8974	99.34
141	2552	20	0.22	8994	99.56
142	2562	12	0.13	9006	99.69
143	2575	14	0.15	9020	99.85
144	2590	4	0.04	9024	99.89
145	2609	6	0.07	9030	99.96
146	2635	4	0.04	9034	100.00
147	2680	0	0.00	9034	100.00
148	3000	0	0.00	9034	100.00

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**Table C.133. AZELLA Stage III Reassessment Form Frequency Distribution at Grade 3**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	0	0.00	0	0.00	50	2359	45	0.55	543	6.59
1	2100	0	0.00	0	0.00	51	2361	44	0.53	587	7.12
2	2145	1	0.01	1	0.01	52	2363	57	0.69	644	7.81
3	2172	0	0.00	1	0.01	53	2364	60	0.73	704	8.54
4	2190	0	0.00	1	0.01	54	2366	67	0.81	771	9.35
5	2205	0	0.00	1	0.01	55	2368	60	0.73	831	10.08
6	2217	0	0.00	1	0.01	56	2369	54	0.66	885	10.74
7	2227	0	0.00	1	0.01	<b>57</b>	<b>2371</b>	<b>78</b>	<b>0.95</b>	<b>963</b>	<b>11.68</b>
8	2236	0	0.00	1	0.01	58	2373	77	0.93	1040	12.62
9	2243	0	0.00	1	0.01	59	2374	75	0.91	1115	13.53
10	2250	1	0.01	2	0.02	60	2376	88	1.07	1203	14.59
11	2256	0	0.00	2	0.02	61	2378	72	0.87	1275	15.47
12	2262	0	0.00	2	0.02	62	2379	93	1.13	1368	16.60
13	2267	0	0.00	2	0.02	63	2381	119	1.44	1487	18.04
14	2272	2	0.02	4	0.05	64	2382	95	1.15	1582	19.19
15	2276	0	0.00	4	0.05	65	2384	110	1.33	1692	20.53
16	2280	0	0.00	4	0.05	66	2386	100	1.21	1792	21.74
17	2284	1	0.01	5	0.06	67	2387	111	1.35	1903	23.09
18	2288	1	0.01	6	0.07	68	2389	140	1.70	2043	24.78
19	2291	3	0.04	9	0.11	69	2391	121	1.47	2164	26.25
20	2294	4	0.05	13	0.16	70	2392	133	1.61	2297	27.87
21	2297	1	0.01	14	0.17	71	2394	122	1.48	2419	29.35
22	2300	3	0.04	17	0.21	72	2395	121	1.47	2540	30.81
23	2303	4	0.05	21	0.25	73	2397	143	1.73	2683	32.55
24	2306	6	0.07	27	0.33	74	2399	146	1.77	2829	34.32
25	2309	4	0.05	31	0.38	75	2400	145	1.76	2974	36.08
26	2311	11	0.13	42	0.51	76	2402	137	1.66	3111	37.74
27	2314	3	0.04	45	0.55	77	2404	133	1.61	3244	39.35
28	2316	9	0.11	54	0.66	78	2405	144	1.75	3388	41.10
29	2318	4	0.05	58	0.70	79	2407	144	1.75	3532	42.85
30	2321	10	0.12	68	0.82	80	2409	140	1.70	3672	44.55
31	2323	10	0.12	78	0.95	81	2411	130	1.58	3802	46.12
32	2325	19	0.23	97	1.18	82	2412	167	2.03	3969	48.15
33	2327	11	0.13	108	1.31	<b>83</b>	<b>2414</b>	<b>148</b>	<b>1.80</b>	<b>4117</b>	<b>49.95</b>
34	2329	15	0.18	123	1.49	84	2416	148	1.80	4265	51.74
35	2331	18	0.22	141	1.71	85	2417	140	1.70	4405	53.44
36	2333	27	0.33	168	2.04	86	2419	132	1.60	4537	55.04
37	2335	19	0.23	187	2.27	87	2421	126	1.53	4663	56.57
38	2337	14	0.17	201	2.44	88	2423	146	1.77	4809	58.34
39	2339	20	0.24	221	2.68	89	2425	141	1.71	4950	60.05
40	2341	18	0.22	239	2.90	90	2426	145	1.76	5095	61.81
41	2343	15	0.18	254	3.08	91	2428	130	1.58	5225	63.39
42	2345	22	0.27	276	3.35	92	2430	137	1.66	5362	65.05
43	2347	27	0.33	303	3.68	93	2432	133	1.61	5495	66.66
44	2349	30	0.36	333	4.04	94	2434	123	1.49	5618	68.15
45	2350	29	0.35	362	4.39	95	2436	95	1.15	5713	69.31
46	2352	31	0.38	393	4.77	96	2438	136	1.65	5849	70.96
47	2354	26	0.32	419	5.08	97	2439	111	1.35	5960	72.30
48	2356	28	0.34	447	5.42	98	2441	130	1.58	6090	73.88
49	2357	51	0.62	498	6.04	99	2443	130	1.58	6220	75.46

**Table C.133. AZELLA Stage III Reassessment Form Frequency Distribution at Grade 3**

100	2445	107	1.30	6327	76.76	150	2602	3	0.04	8242	99.99
101	2447	114	1.38	6441	78.14	151	2609	1	0.01	8243	100.00
102	2449	126	1.53	6567	79.67	152	2616	0	0.00	8243	100.00
103	2451	85	1.03	6652	80.70	153	2624	0	0.00	8243	100.00
104	2453	110	1.33	6762	82.03	154	2632	0	0.00	8243	100.00
105	2455	91	1.10	6853	83.14	155	2641	0	0.00	8243	100.00
106	2458	88	1.07	6941	84.20	156	2651	0	0.00	8243	100.00
107	2460	85	1.03	7026	85.24	157	2662	0	0.00	8243	100.00
108	2462	90	1.09	7116	86.33	158	2675	0	0.00	8243	100.00
109	2464	74	0.90	7190	87.23	159	2689	0	0.00	8243	100.00
110	2466	94	1.14	7284	88.37	160	2707	0	0.00	8243	100.00
111	2468	57	0.69	7341	89.06	161	2729	0	0.00	8243	100.00
112	2471	77	0.93	7418	89.99	162	2758	0	0.00	8243	100.00
113	2473	65	0.79	7483	90.78	163	2806	0	0.00	8243	100.00
<b>114</b>	<b>2475</b>	<b>62</b>	<b>0.75</b>	<b>7545</b>	<b>91.53</b>	164	3000	0	0.00	8243	100.00
115	2477	62	0.75	7607	92.28						
116	2480	44	0.53	7651	92.82						
117	2482	41	0.50	7692	93.32						
118	2485	51	0.62	7743	93.93						
119	2487	39	0.47	7782	94.41						
120	2490	36	0.44	7818	94.84						
121	2492	40	0.49	7858	95.33						
122	2495	53	0.64	7911	95.97						
123	2497	33	0.40	7944	96.37						
124	2500	31	0.38	7975	96.75						
125	2503	22	0.27	7997	97.02						
126	2506	27	0.33	8024	97.34						
127	2508	21	0.25	8045	97.60						
128	2511	15	0.18	8060	97.78						
129	2514	20	0.24	8080	98.02						
130	2517	16	0.19	8096	98.22						
131	2520	17	0.21	8113	98.42						
132	2523	22	0.27	8135	98.69						
133	2527	4	0.05	8139	98.74						
134	2530	16	0.19	8155	98.93						
135	2533	15	0.18	8170	99.11						
136	2537	15	0.18	8185	99.30						
137	2541	8	0.10	8193	99.39						
138	2544	9	0.11	8202	99.50						
139	2548	5	0.06	8207	99.56						
140	2552	7	0.08	8214	99.65						
141	2556	4	0.05	8218	99.70						
142	2560	5	0.06	8223	99.76						
143	2565	0	0.00	8223	99.76						
144	2569	3	0.04	8226	99.79						
145	2574	1	0.01	8227	99.81						
146	2579	8	0.10	8235	99.90						
147	2584	1	0.01	8236	99.92						
148	2590	2	0.02	8238	99.94						
149	2596	1	0.01	8239	99.95						

**Table C.134. AZELLA Stage III Reassessment Form Frequency Distribution at Grade 4**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	0	0.00	0	0.00	50	2359	25	0.30	404	4.90
1	2100	0	0.00	0	0.00	51	2361	24	0.29	428	5.19
2	2145	0	0.00	0	0.00	52	2363	30	0.36	458	5.55
3	2172	0	0.00	0	0.00	53	2364	31	0.38	489	5.93
4	2190	0	0.00	0	0.00	54	2366	42	0.51	531	6.44
5	2205	0	0.00	0	0.00	55	2368	32	0.39	563	6.83
6	2217	0	0.00	0	0.00	56	2369	32	0.39	595	7.22
7	2227	0	0.00	0	0.00	57	2371	28	0.34	623	7.56
8	2236	0	0.00	0	0.00	58	2373	40	0.49	663	8.04
9	2243	0	0.00	0	0.00	59	2374	49	0.59	712	8.64
10	2250	0	0.00	0	0.00	60	2376	38	0.46	750	9.10
11	2256	1	0.01	1	0.01	61	2378	44	0.53	794	9.63
12	2262	0	0.00	1	0.01	62	2379	38	0.46	832	10.09
13	2267	0	0.00	1	0.01	63	2381	39	0.47	871	10.56
14	2272	3	0.04	4	0.05	64	2382	54	0.65	925	11.22
15	2276	0	0.00	4	0.05	65	2384	52	0.63	977	11.85
16	2280	1	0.01	5	0.06	66	2386	58	0.70	1035	12.55
17	2284	1	0.01	6	0.07	67	2387	66	0.80	1101	13.35
18	2288	5	0.06	11	0.13	68	2389	57	0.69	1158	14.04
19	2291	0	0.00	11	0.13	<b>69</b>	<b>2391</b>	<b>61</b>	<b>0.74</b>	<b>1219</b>	<b>14.78</b>
20	2294	2	0.02	13	0.16	70	2392	56	0.68	1275	15.46
21	2297	2	0.02	15	0.18	71	2394	63	0.76	1338	16.23
22	2300	7	0.08	22	0.27	72	2395	61	0.74	1399	16.97
23	2303	0	0.00	22	0.27	73	2397	68	0.82	1467	17.79
24	2306	3	0.04	25	0.30	74	2399	54	0.65	1521	18.45
25	2309	2	0.02	27	0.33	75	2400	70	0.85	1591	19.30
26	2311	9	0.11	36	0.44	76	2402	62	0.75	1653	20.05
27	2314	4	0.05	40	0.49	77	2404	90	1.09	1743	21.14
28	2316	14	0.17	54	0.65	78	2405	76	0.92	1819	22.06
29	2318	8	0.10	62	0.75	79	2407	87	1.06	1906	23.12
30	2321	6	0.07	68	0.82	80	2409	76	0.92	1982	24.04
31	2323	5	0.06	73	0.89	81	2411	65	0.79	2047	24.83
32	2325	12	0.15	85	1.03	82	2412	80	0.97	2127	25.80
33	2327	12	0.15	97	1.18	83	2414	102	1.24	2229	27.03
34	2329	15	0.18	112	1.36	84	2416	87	1.06	2316	28.09
35	2331	12	0.15	124	1.50	85	2417	85	1.03	2401	29.12
36	2333	12	0.15	136	1.65	86	2419	86	1.04	2487	30.16
37	2335	13	0.16	149	1.81	87	2421	108	1.31	2595	31.47
38	2337	13	0.16	162	1.96	88	2423	108	1.31	2703	32.78
39	2339	15	0.18	177	2.15	89	2425	90	1.09	2793	33.88
40	2341	17	0.21	194	2.35	90	2426	102	1.24	2895	35.11
41	2343	16	0.19	210	2.55	91	2428	98	1.19	2993	36.30
42	2345	24	0.29	234	2.84	92	2430	96	1.16	3089	37.47
43	2347	13	0.16	247	3.00	93	2432	95	1.15	3184	38.62
44	2349	25	0.30	272	3.30	<b>94</b>	<b>2434</b>	<b>114</b>	<b>1.38</b>	<b>3298</b>	<b>40.00</b>
45	2350	16	0.19	288	3.49	95	2436	105	1.27	3403	41.27
46	2352	22	0.27	310	3.76	96	2438	122	1.48	3525	42.75
47	2354	21	0.25	331	4.01	97	2439	94	1.14	3619	43.89
48	2356	20	0.24	351	4.26	98	2441	108	1.31	3727	45.20
49	2357	28	0.34	379	4.60	99	2443	97	1.18	3824	46.38

**Table C.134. AZELLA Stage III Reassessment Form Frequency Distribution at Grade 4**

100	2445	134	1.63	3958	48.00	150	2602	10	0.12	8227	99.78
101	2447	119	1.44	4077	49.45	151	2609	4	0.05	8231	99.83
102	2449	147	1.78	4224	51.23	152	2616	7	0.08	8238	99.92
103	2451	124	1.50	4348	52.73	153	2624	3	0.04	8241	99.95
104	2453	125	1.52	4473	54.25	154	2632	1	0.01	8242	99.96
105	2455	135	1.64	4608	55.89	155	2641	0	0.00	8242	99.96
106	2458	130	1.58	4738	57.47	156	2651	1	0.01	8243	99.98
107	2460	107	1.30	4845	58.76	157	2662	1	0.01	8244	99.99
108	2462	142	1.72	4987	60.49	158	2675	1	0.01	8245	100.00
109	2464	126	1.53	5113	62.01	159	2689	0	0.00	8245	100.00
110	2466	153	1.86	5266	63.87	160	2707	0	0.00	8245	100.00
111	2468	106	1.29	5372	65.15	161	2729	0	0.00	8245	100.00
112	2471	146	1.77	5518	66.93	162	2758	0	0.00	8245	100.00
113	2473	99	1.20	5617	68.13	163	2806	0	0.00	8245	100.00
114	2475	143	1.73	5760	69.86	164	3000	0	0.00	8245	100.00
115	2477	112	1.36	5872	71.22						
116	2480	128	1.55	6000	72.77						
117	2482	115	1.39	6115	74.17						
118	2485	150	1.82	6265	75.99						
119	2487	89	1.08	6354	77.06						
120	2490	146	1.77	6500	78.84						
121	2492	96	1.16	6596	80.00						
122	2495	134	1.63	6730	81.63						
123	2497	96	1.16	6826	82.79						
<b>124</b>	<b>2500</b>	<b>125</b>	<b>1.52</b>	<b>6951</b>	<b>84.31</b>						
125	2503	73	0.89	7024	85.19						
126	2506	123	1.49	7147	86.68						
127	2508	87	1.06	7234	87.74						
128	2511	98	1.19	7332	88.93						
129	2514	55	0.67	7387	89.59						
130	2517	123	1.49	7510	91.09						
131	2520	44	0.53	7554	91.62						
132	2523	96	1.16	7650	92.78						
133	2527	44	0.53	7694	93.32						
134	2530	78	0.95	7772	94.26						
135	2533	32	0.39	7804	94.65						
136	2537	77	0.93	7881	95.59						
137	2541	37	0.45	7918	96.03						
138	2544	67	0.81	7985	96.85						
139	2548	26	0.32	8011	97.16						
140	2552	37	0.45	8048	97.61						
141	2556	20	0.24	8068	97.85						
142	2560	39	0.47	8107	98.33						
143	2565	14	0.17	8121	98.50						
144	2569	34	0.41	8155	98.91						
145	2574	7	0.08	8162	98.99						
146	2579	28	0.34	8190	99.33						
147	2584	5	0.06	8195	99.39						
148	2590	19	0.23	8214	99.62						
149	2596	3	0.04	8217	99.66						

**Table C.135. AZELLA Stage III Reassessment Form Frequency Distribution at Grade 5**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	0	0.00	0	0.00	50	2359	17	0.26	315	4.91
1	2100	0	0.00	0	0.00	51	2361	27	0.42	342	5.33
2	2145	0	0.00	0	0.00	52	2363	26	0.41	368	5.73
3	2172	0	0.00	0	0.00	53	2364	14	0.22	382	5.95
4	2190	0	0.00	0	0.00	54	2366	9	0.14	391	6.09
5	2205	0	0.00	0	0.00	55	2368	11	0.17	402	6.26
6	2217	0	0.00	0	0.00	56	2369	21	0.33	423	6.59
7	2227	0	0.00	0	0.00	57	2371	31	0.48	454	7.07
8	2236	0	0.00	0	0.00	58	2373	18	0.28	472	7.35
9	2243	0	0.00	0	0.00	59	2374	23	0.36	495	7.71
10	2250	0	0.00	0	0.00	60	2376	20	0.31	515	8.02
11	2256	0	0.00	0	0.00	61	2378	21	0.33	536	8.35
12	2262	0	0.00	0	0.00	62	2379	17	0.26	553	8.62
13	2267	0	0.00	0	0.00	63	2381	30	0.47	583	9.08
14	2272	1	0.02	1	0.02	64	2382	26	0.41	609	9.49
15	2276	0	0.00	1	0.02	65	2384	23	0.36	632	9.85
16	2280	2	0.03	3	0.05	66	2386	21	0.33	653	10.17
17	2284	1	0.02	4	0.06	67	2387	29	0.45	682	10.63
18	2288	1	0.02	5	0.08	68	2389	25	0.39	707	11.02
19	2291	1	0.02	6	0.09	69	2391	24	0.37	731	11.39
20	2294	1	0.02	7	0.11	70	2392	42	0.65	773	12.04
21	2297	0	0.00	7	0.11	71	2394	21	0.33	794	12.37
22	2300	5	0.08	12	0.19	72	2395	33	0.51	827	12.89
23	2303	2	0.03	14	0.22	73	2397	32	0.50	859	13.38
24	2306	4	0.06	18	0.28	74	2399	43	0.67	902	14.05
25	2309	3	0.05	21	0.33	75	2400	27	0.42	929	14.47
26	2311	5	0.08	26	0.41	<b>76</b>	<b>2402</b>	<b>40</b>	<b>0.62</b>	<b>969</b>	<b>15.10</b>
27	2314	1	0.02	27	0.42	77	2404	32	0.50	1001	15.60
28	2316	9	0.14	36	0.56	78	2405	42	0.65	1043	16.25
29	2318	5	0.08	41	0.64	79	2407	40	0.62	1083	16.87
30	2321	9	0.14	50	0.78	80	2409	47	0.73	1130	17.61
31	2323	3	0.05	53	0.83	81	2411	43	0.67	1173	18.28
32	2325	13	0.20	66	1.03	82	2412	35	0.55	1208	18.82
33	2327	4	0.06	70	1.09	83	2414	52	0.81	1260	19.63
34	2329	26	0.41	96	1.50	84	2416	54	0.84	1314	20.47
35	2331	13	0.20	109	1.70	85	2417	40	0.62	1354	21.10
36	2333	16	0.25	125	1.95	86	2419	60	0.93	1414	22.03
37	2335	7	0.11	132	2.06	87	2421	47	0.73	1461	22.76
38	2337	14	0.22	146	2.27	88	2423	56	0.87	1517	23.64
39	2339	12	0.19	158	2.46	89	2425	49	0.76	1566	24.40
40	2341	12	0.19	170	2.65	90	2426	66	1.03	1632	25.43
41	2343	9	0.14	179	2.79	91	2428	53	0.83	1685	26.25
42	2345	16	0.25	195	3.04	92	2430	63	0.98	1748	27.24
43	2347	18	0.28	213	3.32	93	2432	54	0.84	1802	28.08
44	2349	13	0.20	226	3.52	94	2434	63	0.98	1865	29.06
45	2350	13	0.20	239	3.72	95	2436	68	1.06	1933	30.12
46	2352	13	0.20	252	3.93	96	2438	80	1.25	2013	31.36
47	2354	8	0.12	260	4.05	97	2439	64	1.00	2077	32.36
48	2356	18	0.28	278	4.33	98	2441	69	1.08	2146	33.44
49	2357	20	0.31	298	4.64	<b>99</b>	<b>2443</b>	<b>64</b>	<b>1.00</b>	<b>2210</b>	<b>34.43</b>

**Table C.135. AZELLA Stage III Reassessment Form Frequency Distribution at Grade 5**

100	2445	79	1.23	2289	35.67	150	2602	14	0.22	6394	99.63
101	2447	77	1.20	2366	36.87	151	2609	3	0.05	6397	99.67
102	2449	84	1.31	2450	38.17	152	2616	10	0.16	6407	99.83
103	2451	86	1.34	2536	39.51	153	2624	1	0.02	6408	99.84
104	2453	105	1.64	2641	41.15	154	2632	3	0.05	6411	99.89
105	2455	71	1.11	2712	42.26	155	2641	0	0.00	6411	99.89
106	2458	130	2.03	2842	44.28	156	2651	4	0.06	6415	99.95
107	2460	85	1.32	2927	45.61	157	2662	1	0.02	6416	99.97
108	2462	126	1.96	3053	47.57	158	2675	1	0.02	6417	99.98
109	2464	81	1.26	3134	48.83	159	2689	0	0.00	6417	99.98
110	2466	123	1.92	3257	50.75	160	2707	1	0.02	6418	100.00
111	2468	108	1.68	3365	52.43	161	2729	0	0.00	6418	100.00
112	2471	135	2.10	3500	54.53	162	2758	0	0.00	6418	100.00
113	2473	91	1.42	3591	55.95	163	2806	0	0.00	6418	100.00
114	2475	132	2.06	3723	58.01	164	3000	0	0.00	6418	100.00
115	2477	86	1.34	3809	59.35						
116	2480	139	2.17	3948	61.51						
117	2482	95	1.48	4043	62.99						
118	2485	123	1.92	4166	64.91						
119	2487	78	1.22	4244	66.13						
120	2490	169	2.63	4413	68.76						
121	2492	87	1.36	4500	70.12						
122	2495	147	2.29	4647	72.41						
123	2497	76	1.18	4723	73.59						
124	2500	144	2.24	4867	75.83						
125	2503	77	1.20	4944	77.03						
126	2506	132	2.06	5076	79.09						
127	2508	71	1.11	5147	80.20						
128	2511	133	2.07	5280	82.27						
129	2514	63	0.98	5343	83.25						
130	2517	120	1.87	5463	85.12						
131	2520	55	0.86	5518	85.98						
<b>132</b>	<b>2523</b>	<b>110</b>	<b>1.71</b>	<b>5628</b>	<b>87.69</b>						
133	2527	51	0.79	5679	88.49						
134	2530	105	1.64	5784	90.12						
135	2533	51	0.79	5835	90.92						
136	2537	85	1.32	5920	92.24						
137	2541	39	0.61	5959	92.85						
138	2544	86	1.34	6045	94.19						
139	2548	29	0.45	6074	94.64						
140	2552	60	0.93	6134	95.57						
141	2556	26	0.41	6160	95.98						
142	2560	64	1.00	6224	96.98						
143	2565	19	0.30	6243	97.27						
144	2569	55	0.86	6298	98.13						
145	2574	10	0.16	6308	98.29						
146	2579	29	0.45	6337	98.74						
147	2584	8	0.12	6345	98.86						
148	2590	26	0.41	6371	99.27						
149	2596	9	0.14	6380	99.41						

**Table C.136. AZELLA Stage IV Reassessment Form Frequency Distribution at Grade 6**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	0	0.00	0	0.00	50	2386	16	0.37	373	8.65
1	2125	0	0.00	0	0.00	51	2388	23	0.53	396	9.18
2	2169	0	0.00	0	0.00	52	2389	23	0.53	419	9.72
3	2196	0	0.00	0	0.00	53	2391	31	0.72	450	10.44
4	2214	0	0.00	0	0.00	54	2393	25	0.58	475	11.02
5	2229	0	0.00	0	0.00	55	2394	17	0.39	492	11.41
6	2241	0	0.00	0	0.00	56	2396	20	0.46	512	11.87
7	2251	0	0.00	0	0.00	57	2398	30	0.70	542	12.57
8	2260	0	0.00	0	0.00	58	2399	25	0.58	567	13.15
9	2267	0	0.00	0	0.00	59	2401	30	0.70	597	13.85
10	2274	0	0.00	0	0.00	60	2403	36	0.83	633	14.68
11	2280	0	0.00	0	0.00	<b>61</b>	<b>2404</b>	<b>39</b>	<b>0.90</b>	<b>672</b>	<b>15.58</b>
12	2286	0	0.00	0	0.00	62	2406	32	0.74	704	16.33
13	2291	0	0.00	0	0.00	63	2408	26	0.60	730	16.93
14	2296	1	0.02	1	0.02	64	2409	31	0.72	761	17.65
15	2301	0	0.00	1	0.02	65	2411	27	0.63	788	18.27
16	2305	1	0.02	2	0.05	66	2412	35	0.81	823	19.09
17	2309	0	0.00	2	0.05	67	2414	41	0.95	864	20.04
18	2313	0	0.00	2	0.05	68	2416	36	0.83	900	20.87
19	2316	1	0.02	3	0.07	69	2417	31	0.72	931	21.59
20	2319	2	0.05	5	0.12	70	2419	42	0.97	973	22.56
21	2323	0	0.00	5	0.12	71	2420	44	1.02	1017	23.59
22	2326	3	0.07	8	0.19	72	2422	37	0.86	1054	24.44
23	2329	0	0.00	8	0.19	73	2424	38	0.88	1092	25.32
24	2332	4	0.09	12	0.28	74	2425	37	0.86	1129	26.18
25	2334	9	0.21	21	0.49	75	2427	41	0.95	1170	27.13
26	2337	5	0.12	26	0.60	76	2429	43	1.00	1213	28.13
27	2340	3	0.07	29	0.67	77	2430	48	1.11	1261	29.24
28	2342	7	0.16	36	0.83	78	2432	49	1.14	1310	30.38
29	2344	4	0.09	40	0.93	79	2434	42	0.97	1352	31.35
30	2347	9	0.21	49	1.14	80	2435	47	1.09	1399	32.44
31	2349	12	0.28	61	1.41	81	2437	52	1.21	1451	33.65
32	2351	10	0.23	71	1.65	82	2439	39	0.90	1490	34.55
33	2354	13	0.30	84	1.95	83	2440	62	1.44	1552	35.99
34	2356	15	0.35	99	2.30	84	2442	57	1.32	1609	37.31
35	2358	14	0.32	113	2.62	<b>85</b>	<b>2444</b>	<b>59</b>	<b>1.37</b>	<b>1668</b>	<b>38.68</b>
36	2360	20	0.46	133	3.08	86	2445	63	1.46	1731	40.14
37	2362	8	0.19	141	3.27	87	2447	60	1.39	1791	41.54
38	2364	12	0.28	153	3.55	88	2449	63	1.46	1854	43.00
39	2366	8	0.19	161	3.73	89	2451	63	1.46	1917	44.46
40	2368	15	0.35	176	4.08	90	2452	52	1.21	1969	45.66
41	2370	18	0.42	194	4.50	91	2454	68	1.58	2037	47.24
42	2372	26	0.60	220	5.10	92	2456	59	1.37	2096	48.61
43	2374	20	0.46	240	5.57	93	2458	62	1.44	2158	50.05
44	2375	14	0.32	254	5.89	94	2460	72	1.67	2230	51.72
45	2377	27	0.63	281	6.52	95	2461	65	1.51	2295	53.22
46	2379	21	0.49	302	7.00	96	2463	51	1.18	2346	54.41
47	2381	18	0.42	320	7.42	97	2465	67	1.55	2413	55.96
48	2383	19	0.44	339	7.86	98	2467	72	1.67	2485	57.63
49	2384	18	0.42	357	8.28	99	2469	67	1.55	2552	59.18

**Table C.136. AZELLA Stage IV Reassessment Form Frequency Distribution at Grade 6**

100	2471	64	1.48	2616	60.67	150	2600	2	0.05	4302	99.77
101	2472	58	1.35	2674	62.01	151	2604	2	0.05	4304	99.81
102	2474	76	1.76	2750	63.78	152	2609	3	0.07	4307	99.88
103	2476	54	1.25	2804	65.03	153	2614	2	0.05	4309	99.93
104	2478	79	1.83	2883	66.86	154	2619	1	0.02	4310	99.95
105	2480	53	1.23	2936	68.09	155	2625	1	0.02	4311	99.98
106	2482	41	0.95	2977	69.04	156	2630	1	0.02	4312	100.00
107	2484	51	1.18	3028	70.22	157	2637	0	0.00	4312	100.00
108	2486	71	1.65	3099	71.87	158	2643	0	0.00	4312	100.00
109	2488	67	1.55	3166	73.42	159	2650	0	0.00	4312	100.00
110	2490	55	1.28	3221	74.70	160	2657	0	0.00	4312	100.00
111	2492	62	1.44	3283	76.14	161	2665	0	0.00	4312	100.00
112	2494	57	1.32	3340	77.46	162	2674	0	0.00	4312	100.00
113	2496	56	1.30	3396	78.76	163	2684	0	0.00	4312	100.00
114	2498	55	1.28	3451	80.03	164	2694	0	0.00	4312	100.00
115	2500	59	1.37	3510	81.40	165	2705	0	0.00	4312	100.00
116	2502	46	1.07	3556	82.47	166	2718	0	0.00	4312	100.00
117	2504	54	1.25	3610	83.72	167	2733	0	0.00	4312	100.00
118	2506	41	0.95	3651	84.67	168	2750	0	0.00	4312	100.00
119	2509	36	0.83	3687	85.51	169	2772	0	0.00	4312	100.00
120	2511	35	0.81	3722	86.32	170	2801	0	0.00	4312	100.00
121	2513	46	1.07	3768	87.38	171	2849	0	0.00	4312	100.00
122	2515	42	0.97	3810	88.36	172	3000	0	0.00	4312	100.00
123	2518	38	0.88	3848	89.24						
124	2520	31	0.72	3879	89.96						
125	2522	38	0.88	3917	90.84						
126	2525	30	0.70	3947	91.54						
127	2527	25	0.58	3972	92.12						
128	2529	26	0.60	3998	92.72						
<b>129</b>	<b>2532</b>	<b>27</b>	<b>0.63</b>	<b>4025</b>	<b>93.34</b>						
130	2534	28	0.65	4053	93.99						
131	2537	27	0.63	4080	94.62						
132	2540	18	0.42	4098	95.04						
133	2542	15	0.35	4113	95.38						
134	2545	16	0.37	4129	95.76						
135	2548	22	0.51	4151	96.27						
136	2551	18	0.42	4169	96.68						
137	2553	13	0.30	4182	96.99						
138	2556	15	0.35	4197	97.33						
139	2560	12	0.28	4209	97.61						
140	2563	17	0.39	4226	98.01						
141	2566	14	0.32	4240	98.33						
142	2569	11	0.26	4251	98.59						
143	2573	9	0.21	4260	98.79						
144	2576	7	0.16	4267	98.96						
145	2580	11	0.26	4278	99.21						
146	2583	4	0.09	4282	99.30						
147	2587	8	0.19	4290	99.49						
148	2591	6	0.14	4296	99.63						
149	2595	4	0.09	4300	99.72						

**Table C.137. AZELLA Stage IV Reassessment Form Frequency Distribution at Grade 7**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	1	0.02	1	0.02	50	2386	11	0.26	361	8.60
1	2125	0	0.00	1	0.02	51	2388	22	0.52	383	9.12
2	2169	1	0.02	2	0.05	52	2389	24	0.57	407	9.69
3	2196	0	0.00	2	0.05	53	2391	16	0.38	423	10.07
4	2214	0	0.00	2	0.05	54	2393	20	0.48	443	10.55
5	2229	0	0.00	2	0.05	55	2394	27	0.64	470	11.19
6	2241	0	0.00	2	0.05	56	2396	15	0.36	485	11.55
7	2251	0	0.00	2	0.05	57	2398	28	0.67	513	12.21
8	2260	0	0.00	2	0.05	58	2399	22	0.52	535	12.74
9	2267	0	0.00	2	0.05	59	2401	19	0.45	554	13.19
10	2274	1	0.02	3	0.07	60	2403	21	0.50	575	13.69
11	2280	0	0.00	3	0.07	<b>61</b>	<b>2404</b>	<b>26</b>	<b>0.62</b>	<b>601</b>	<b>14.31</b>
12	2286	1	0.02	4	0.10	62	2406	14	0.33	615	14.64
13	2291	0	0.00	4	0.10	63	2408	32	0.76	647	15.40
14	2296	2	0.05	6	0.14	64	2409	20	0.48	667	15.88
15	2301	0	0.00	6	0.14	65	2411	20	0.48	687	16.36
16	2305	1	0.02	7	0.17	66	2412	30	0.71	717	17.07
17	2309	2	0.05	9	0.21	67	2414	28	0.67	745	17.74
18	2313	0	0.00	9	0.21	68	2416	30	0.71	775	18.45
19	2316	3	0.07	12	0.29	69	2417	26	0.62	801	19.07
20	2319	4	0.10	16	0.38	70	2419	22	0.52	823	19.60
21	2323	1	0.02	17	0.40	71	2420	28	0.67	851	20.26
22	2326	4	0.10	21	0.50	72	2422	35	0.83	886	21.10
23	2329	3	0.07	24	0.57	73	2424	31	0.74	917	21.83
24	2332	2	0.05	26	0.62	74	2425	34	0.81	951	22.64
25	2334	3	0.07	29	0.69	75	2427	28	0.67	979	23.31
26	2337	8	0.19	37	0.88	76	2429	29	0.69	1008	24.00
27	2340	7	0.17	44	1.05	77	2430	35	0.83	1043	24.83
28	2342	3	0.07	47	1.12	78	2432	32	0.76	1075	25.60
29	2344	11	0.26	58	1.38	79	2434	24	0.57	1099	26.17
30	2347	11	0.26	69	1.64	80	2435	46	1.10	1145	27.26
31	2349	6	0.14	75	1.79	81	2437	29	0.69	1174	27.95
32	2351	14	0.33	89	2.12	82	2439	38	0.90	1212	28.86
33	2354	12	0.29	101	2.40	83	2440	32	0.76	1244	29.62
34	2356	7	0.17	108	2.57	84	2442	43	1.02	1287	30.64
35	2358	10	0.24	118	2.81	<b>85</b>	<b>2444</b>	<b>29</b>	<b>0.69</b>	<b>1316</b>	<b>31.33</b>
36	2360	19	0.45	137	3.26	86	2445	44	1.05	1360	32.38
37	2362	13	0.31	150	3.57	87	2447	34	0.81	1394	33.19
38	2364	21	0.50	171	4.07	88	2449	40	0.95	1434	34.14
39	2366	12	0.29	183	4.36	89	2451	39	0.93	1473	35.07
40	2368	17	0.40	200	4.76	90	2452	41	0.98	1514	36.05
41	2370	15	0.36	215	5.12	91	2454	56	1.33	1570	37.38
42	2372	18	0.43	233	5.55	92	2456	55	1.31	1625	38.69
43	2374	15	0.36	248	5.90	93	2458	46	1.10	1671	39.79
44	2375	20	0.48	268	6.38	94	2460	44	1.05	1715	40.83
45	2377	15	0.36	283	6.74	95	2461	41	0.98	1756	41.81
46	2379	15	0.36	298	7.10	96	2463	47	1.12	1803	42.93
47	2381	20	0.48	318	7.57	97	2465	49	1.17	1852	44.10
48	2383	11	0.26	329	7.83	98	2467	52	1.24	1904	45.33
49	2384	21	0.50	350	8.33	99	2469	43	1.02	1947	46.36

**Table C.137. AZELLA Stage IV Reassessment Form Frequency Distribution at Grade 7**

100	2471	62	1.48	2009	47.83	150	2600	5	0.12	4164	99.14
101	2472	56	1.33	2065	49.17	151	2604	7	0.17	4171	99.31
102	2474	53	1.26	2118	50.43	152	2609	10	0.24	4181	99.55
103	2476	53	1.26	2171	51.69	153	2614	2	0.05	4183	99.60
104	2478	41	0.98	2212	52.67	154	2619	3	0.07	4186	99.67
105	2480	55	1.31	2267	53.98	155	2625	4	0.10	4190	99.76
106	2482	59	1.40	2326	55.38	156	2630	5	0.12	4195	99.88
107	2484	63	1.50	2389	56.88	157	2637	2	0.05	4197	99.93
108	2486	70	1.67	2459	58.55	158	2643	0	0.00	4197	99.93
109	2488	61	1.45	2520	60.00	159	2650	0	0.00	4197	99.93
110	2490	65	1.55	2585	61.55	160	2657	1	0.02	4198	99.95
111	2492	59	1.40	2644	62.95	161	2665	0	0.00	4198	99.95
112	2494	61	1.45	2705	64.40	162	2674	1	0.02	4199	99.98
113	2496	51	1.21	2756	65.62	163	2684	1	0.02	4200	100.00
114	2498	60	1.43	2816	67.05	164	2694	0	0.00	4200	100.00
115	2500	58	1.38	2874	68.43	165	2705	0	0.00	4200	100.00
116	2502	54	1.29	2928	69.71	166	2718	0	0.00	4200	100.00
117	2504	42	1.00	2970	70.71	167	2733	0	0.00	4200	100.00
118	2506	53	1.26	3023	71.98	168	2750	0	0.00	4200	100.00
119	2509	54	1.29	3077	73.26	169	2772	0	0.00	4200	100.00
120	2511	70	1.67	3147	74.93	170	2801	0	0.00	4200	100.00
121	2513	62	1.48	3209	76.40	171	2849	0	0.00	4200	100.00
122	2515	51	1.21	3260	77.62	172	3000	0	0.00	4200	100.00
123	2518	62	1.48	3322	79.10						
124	2520	46	1.10	3368	80.19						
125	2522	38	0.90	3406	81.10						
126	2525	43	1.02	3449	82.12						
127	2527	50	1.19	3499	83.31						
128	2529	58	1.38	3557	84.69						
129	2532	56	1.33	3613	86.02						
130	2534	51	1.21	3664	87.24						
<b>131</b>	<b>2537</b>	<b>30</b>	<b>0.71</b>	<b>3694</b>	<b>87.95</b>						
132	2540	41	0.98	3735	88.93						
133	2542	47	1.12	3782	90.05						
134	2545	40	0.95	3822	91.00						
135	2548	40	0.95	3862	91.95						
136	2551	23	0.55	3885	92.50						
137	2553	39	0.93	3924	93.43						
138	2556	35	0.83	3959	94.26						
139	2560	21	0.50	3980	94.76						
140	2563	35	0.83	4015	95.60						
141	2566	19	0.45	4034	96.05						
142	2569	21	0.50	4055	96.55						
143	2573	16	0.38	4071	96.93						
144	2576	20	0.48	4091	97.40						
145	2580	17	0.40	4108	97.81						
146	2583	19	0.45	4127	98.26						
147	2587	10	0.24	4137	98.50						
148	2591	14	0.33	4151	98.83						
149	2595	8	0.19	4159	99.02						

**Table C.138. AZELLA Stage IV Reassessment Form Frequency Distribution at Grade 8**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	0	0.00	0	0.00	50	2386	11	0.32	281	8.28
1	2125	0	0.00	0	0.00	51	2388	11	0.32	292	8.61
2	2169	0	0.00	0	0.00	52	2389	20	0.59	312	9.20
3	2196	0	0.00	0	0.00	53	2391	11	0.32	323	9.52
4	2214	0	0.00	0	0.00	54	2393	15	0.44	338	9.96
5	2229	0	0.00	0	0.00	55	2394	18	0.53	356	10.50
6	2241	0	0.00	0	0.00	56	2396	14	0.41	370	10.91
7	2251	0	0.00	0	0.00	57	2398	24	0.71	394	11.62
8	2260	0	0.00	0	0.00	58	2399	15	0.44	409	12.06
9	2267	0	0.00	0	0.00	59	2401	15	0.44	424	12.50
10	2274	0	0.00	0	0.00	60	2403	17	0.50	441	13.00
11	2280	0	0.00	0	0.00	<b>61</b>	<b>2404</b>	<b>21</b>	<b>0.62</b>	<b>462</b>	<b>13.62</b>
12	2286	0	0.00	0	0.00	62	2406	25	0.74	487	14.36
13	2291	0	0.00	0	0.00	63	2408	10	0.29	497	14.65
14	2296	0	0.00	0	0.00	64	2409	16	0.47	513	15.12
15	2301	0	0.00	0	0.00	65	2411	23	0.68	536	15.80
16	2305	2	0.06	2	0.06	66	2412	15	0.44	551	16.24
17	2309	0	0.00	2	0.06	67	2414	18	0.53	569	16.77
18	2313	1	0.03	3	0.09	68	2416	21	0.62	590	17.39
19	2316	1	0.03	4	0.12	69	2417	17	0.50	607	17.90
20	2319	2	0.06	6	0.18	70	2419	13	0.38	620	18.28
21	2323	2	0.06	8	0.24	71	2420	14	0.41	634	18.69
22	2326	3	0.09	11	0.32	72	2422	21	0.62	655	19.31
23	2329	1	0.03	12	0.35	73	2424	28	0.83	683	20.14
24	2332	5	0.15	17	0.50	74	2425	24	0.71	707	20.84
25	2334	0	0.00	17	0.50	75	2427	23	0.68	730	21.52
26	2337	8	0.24	25	0.74	76	2429	15	0.44	745	21.96
27	2340	4	0.12	29	0.85	77	2430	27	0.80	772	22.76
28	2342	7	0.21	36	1.06	78	2432	30	0.88	802	23.64
29	2344	12	0.35	48	1.42	79	2434	19	0.56	821	24.20
30	2347	8	0.24	56	1.65	80	2435	33	0.97	854	25.18
31	2349	4	0.12	60	1.77	81	2437	22	0.65	876	25.83
32	2351	6	0.18	66	1.95	82	2439	19	0.56	895	26.39
33	2354	10	0.29	76	2.24	83	2440	24	0.71	919	27.09
34	2356	7	0.21	83	2.45	84	2442	19	0.56	938	27.65
35	2358	3	0.09	86	2.54	<b>85</b>	<b>2444</b>	<b>27</b>	<b>0.80</b>	<b>965</b>	<b>28.45</b>
36	2360	10	0.29	96	2.83	86	2445	27	0.80	992	29.25
37	2362	17	0.50	113	3.33	87	2447	25	0.74	1017	29.98
38	2364	19	0.56	132	3.89	88	2449	27	0.80	1044	30.78
39	2366	13	0.38	145	4.27	89	2451	29	0.85	1073	31.63
40	2368	16	0.47	161	4.75	90	2452	25	0.74	1098	32.37
41	2370	18	0.53	179	5.28	91	2454	27	0.80	1125	33.17
42	2372	10	0.29	189	5.57	92	2456	22	0.65	1147	33.81
43	2374	11	0.32	200	5.90	93	2458	39	1.15	1186	34.96
44	2375	10	0.29	210	6.19	94	2460	28	0.83	1214	35.79
45	2377	9	0.27	219	6.46	95	2461	25	0.74	1239	36.53
46	2379	11	0.32	230	6.78	96	2463	35	1.03	1274	37.56
47	2381	15	0.44	245	7.22	97	2465	34	1.00	1308	38.56
48	2383	12	0.35	257	7.58	98	2467	44	1.30	1352	39.86
49	2384	13	0.38	270	7.96	99	2469	31	0.91	1383	40.77

**Table C.138. AZELLA Stage IV Reassessment Form Frequency Distribution at Grade 8**

100	2471	39	1.15	1422	41.92	150	2600	10	0.29	3348	98.70
101	2472	40	1.18	1462	43.10	151	2604	9	0.27	3357	98.97
102	2474	34	1.00	1496	44.10	152	2609	6	0.18	3363	99.15
103	2476	37	1.09	1533	45.19	153	2614	8	0.24	3371	99.38
104	2478	46	1.36	1579	46.55	154	2619	6	0.18	3377	99.56
105	2480	39	1.15	1618	47.70	155	2625	3	0.09	3380	99.65
106	2482	37	1.09	1655	48.79	156	2630	3	0.09	3383	99.73
107	2484	53	1.56	1708	50.35	157	2637	2	0.06	3385	99.79
108	2486	36	1.06	1744	51.42	158	2643	5	0.15	3390	99.94
109	2488	49	1.44	1793	52.86	159	2650	0	0.00	3390	99.94
110	2490	47	1.39	1840	54.25	160	2657	1	0.03	3391	99.97
111	2492	53	1.56	1893	55.81	161	2665	0	0.00	3391	99.97
112	2494	45	1.33	1938	57.13	162	2674	1	0.03	3392	100.00
113	2496	44	1.30	1982	58.43	163	2684	0	0.00	3392	100.00
114	2498	52	1.53	2034	59.96	164	2694	0	0.00	3392	100.00
115	2500	41	1.21	2075	61.17	165	2705	0	0.00	3392	100.00
116	2502	53	1.56	2128	62.74	166	2718	0	0.00	3392	100.00
117	2504	54	1.59	2182	64.33	167	2733	0	0.00	3392	100.00
118	2506	46	1.36	2228	65.68	168	2750	0	0.00	3392	100.00
119	2509	45	1.33	2273	67.01	169	2772	0	0.00	3392	100.00
120	2511	45	1.33	2318	68.34	170	2801	0	0.00	3392	100.00
121	2513	55	1.62	2373	69.96	171	2849	0	0.00	3392	100.00
122	2515	40	1.18	2413	71.14	172	3000	0	0.00	3392	100.00
123	2518	61	1.80	2474	72.94						
124	2520	54	1.59	2528	74.53						
125	2522	40	1.18	2568	75.71						
126	2525	59	1.74	2627	77.45						
127	2527	51	1.50	2678	78.95						
128	2529	40	1.18	2718	80.13						
129	2532	48	1.42	2766	81.54						
130	2534	37	1.09	2803	82.64						
131	2537	45	1.33	2848	83.96						
<b>132</b>	<b>2540</b>	<b>44</b>	<b>1.30</b>	<b>2892</b>	<b>85.26</b>						
133	2542	38	1.12	2930	86.38						
134	2545	38	1.12	2968	87.50						
135	2548	39	1.15	3007	88.65						
136	2551	33	0.97	3040	89.62						
137	2553	38	1.12	3078	90.74						
138	2556	31	0.91	3109	91.66						
139	2560	22	0.65	3131	92.31						
140	2563	28	0.83	3159	93.13						
141	2566	31	0.91	3190	94.04						
142	2569	20	0.59	3210	94.63						
143	2573	29	0.85	3239	95.49						
144	2576	28	0.83	3267	96.31						
145	2580	18	0.53	3285	96.85						
146	2583	17	0.50	3302	97.35						
147	2587	10	0.29	3312	97.64						
148	2591	17	0.50	3329	98.14						
149	2595	9	0.27	3338	98.41						

**Table C.139. AZELLA Stage V Reassessment Form Frequency Distribution at Grade 9**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	0	0.00	0	0.00	50	2405	23	0.79	436	15.02
1	2140	0	0.00	0	0.00	51	2407	16	0.55	452	15.58
2	2185	0	0.00	0	0.00	52	2409	25	0.86	477	16.44
3	2211	0	0.00	0	0.00	53	2411	23	0.79	500	17.23
4	2230	0	0.00	0	0.00	54	2412	17	0.59	517	17.82
5	2245	0	0.00	0	0.00	55	2414	22	0.76	539	18.57
6	2257	0	0.00	0	0.00	56	2416	24	0.83	563	19.40
7	2267	0	0.00	0	0.00	57	2418	27	0.93	590	20.33
8	2276	0	0.00	0	0.00	58	2420	24	0.83	614	21.16
9	2284	0	0.00	0	0.00	59	2421	24	0.83	638	21.98
10	2291	1	0.03	1	0.03	60	2423	20	0.69	658	22.67
11	2297	0	0.00	1	0.03	61	2425	25	0.86	683	23.54
12	2303	1	0.03	2	0.07	<b>62</b>	<b>2427</b>	<b>18</b>	<b>0.62</b>	<b>701</b>	<b>24.16</b>
13	2308	0	0.00	2	0.07	63	2428	29	1.00	730	25.16
14	2313	0	0.00	2	0.07	64	2430	28	0.96	758	26.12
15	2318	0	0.00	2	0.07	65	2432	30	1.03	788	27.15
16	2322	0	0.00	2	0.07	66	2434	18	0.62	806	27.77
17	2326	0	0.00	2	0.07	67	2435	22	0.76	828	28.53
18	2330	2	0.07	4	0.14	68	2437	25	0.86	853	29.39
19	2334	0	0.00	4	0.14	69	2439	28	0.96	881	30.36
20	2337	1	0.03	5	0.17	70	2441	27	0.93	908	31.29
21	2340	1	0.03	6	0.21	71	2442	20	0.69	928	31.98
22	2343	3	0.10	9	0.31	72	2444	27	0.93	955	32.91
23	2347	2	0.07	11	0.38	73	2446	38	1.31	993	34.22
24	2349	5	0.17	16	0.55	74	2448	26	0.90	1019	35.11
25	2352	3	0.10	19	0.65	75	2450	34	1.17	1053	36.29
26	2355	8	0.28	27	0.93	76	2451	39	1.34	1092	37.63
27	2358	4	0.14	31	1.07	77	2453	41	1.41	1133	39.04
28	2360	9	0.31	40	1.38	78	2455	35	1.21	1168	40.25
29	2363	6	0.21	46	1.59	79	2457	30	1.03	1198	41.28
30	2365	16	0.55	62	2.14	80	2459	36	1.24	1234	42.52
31	2367	7	0.24	69	2.38	81	2460	38	1.31	1272	43.83
32	2370	14	0.48	83	2.86	82	2462	35	1.21	1307	45.04
33	2372	8	0.28	91	3.14	83	2464	36	1.24	1343	46.28
34	2374	20	0.69	111	3.82	84	2466	35	1.21	1378	47.48
35	2376	13	0.45	124	4.27	<b>85</b>	<b>2468</b>	<b>34</b>	<b>1.17</b>	<b>1412</b>	<b>48.66</b>
36	2378	13	0.45	137	4.72	86	2469	33	1.14	1445	49.79
37	2380	13	0.45	150	5.17	87	2471	29	1.00	1474	50.79
38	2382	23	0.79	173	5.96	88	2473	38	1.31	1512	52.10
39	2384	14	0.48	187	6.44	89	2475	37	1.27	1549	53.38
40	2386	15	0.52	202	6.96	90	2477	29	1.00	1578	54.38
41	2388	13	0.45	215	7.41	91	2479	30	1.03	1608	55.41
42	2390	27	0.93	242	8.34	92	2481	45	1.55	1653	56.96
43	2392	23	0.79	265	9.13	93	2483	46	1.59	1699	58.55
44	2394	27	0.93	292	10.06	94	2484	39	1.34	1738	59.89
45	2396	16	0.55	308	10.61	95	2486	30	1.03	1768	60.92
46	2398	29	1.00	337	11.61	96	2488	35	1.21	1803	62.13
47	2400	29	1.00	366	12.61	97	2490	34	1.17	1837	63.30
48	2402	17	0.59	383	13.20	98	2492	42	1.45	1879	64.75
49	2403	30	1.03	413	14.23	99	2494	41	1.41	1920	66.16

**Table C.139. AZELLA Stage V Reassessment Form Frequency Distribution at Grade 9**

100	2496	36	1.24	1956	67.40	150	2640	1	0.03	2900	99.93
101	2498	33	1.14	1989	68.54	151	2646	0	0.00	2900	99.93
102	2500	30	1.03	2019	69.57	152	2651	1	0.03	2901	99.97
103	2502	36	1.24	2055	70.81	153	2657	0	0.00	2901	99.97
104	2504	35	1.21	2090	72.02	154	2664	0	0.00	2901	99.97
105	2506	39	1.34	2129	73.36	155	2670	0	0.00	2901	99.97
106	2508	22	0.76	2151	74.12	156	2677	0	0.00	2901	99.97
107	2510	37	1.27	2188	75.40	157	2685	0	0.00	2901	99.97
108	2512	31	1.07	2219	76.46	158	2693	1	0.03	2902	100.00
109	2514	30	1.03	2249	77.50	159	2701	0	0.00	2902	100.00
110	2516	30	1.03	2279	78.53	160	2710	0	0.00	2902	100.00
111	2519	38	1.31	2317	79.84	161	2720	0	0.00	2902	100.00
112	2521	30	1.03	2347	80.88	162	2730	0	0.00	2902	100.00
113	2523	32	1.10	2379	81.98	163	2741	0	0.00	2902	100.00
114	2525	28	0.96	2407	82.94	164	2753	0	0.00	2902	100.00
115	2527	29	1.00	2436	83.94	165	2767	0	0.00	2902	100.00
116	2530	23	0.79	2459	84.73	166	2782	0	0.00	2902	100.00
117	2532	23	0.79	2482	85.53	167	2799	0	0.00	2902	100.00
118	2534	28	0.96	2510	86.49	168	2819	0	0.00	2902	100.00
119	2537	20	0.69	2530	87.18	169	2843	0	0.00	2902	100.00
120	2539	28	0.96	2558	88.15	170	2875	0	0.00	2902	100.00
121	2541	19	0.65	2577	88.80	171	2926	0	0.00	2902	100.00
122	2544	21	0.72	2598	89.52	172	3000	0	0.00	2902	100.00
123	2546	23	0.79	2621	90.32						
124	2549	17	0.59	2638	90.90						
<b>125</b>	<b>2551</b>	<b>16</b>	<b>0.55</b>	<b>2654</b>	<b>91.45</b>						
126	2554	24	0.83	2678	92.28						
127	2557	19	0.65	2697	92.94						
128	2559	20	0.69	2717	93.63						
129	2562	23	0.79	2740	94.42						
130	2565	15	0.52	2755	94.93						
131	2568	14	0.48	2769	95.42						
132	2571	18	0.62	2787	96.04						
133	2574	11	0.38	2798	96.42						
134	2577	7	0.24	2805	96.66						
135	2580	11	0.38	2816	97.04						
136	2583	4	0.14	2820	97.17						
137	2586	15	0.52	2835	97.69						
138	2590	10	0.34	2845	98.04						
139	2593	6	0.21	2851	98.24						
140	2597	12	0.41	2863	98.66						
141	2600	7	0.24	2870	98.90						
142	2604	3	0.10	2873	99.00						
143	2608	5	0.17	2878	99.17						
144	2612	8	0.28	2886	99.45						
145	2616	6	0.21	2892	99.66						
146	2621	3	0.10	2895	99.76						
147	2625	0	0.00	2895	99.76						
148	2630	3	0.10	2898	99.86						
149	2635	1	0.03	2899	99.90						

**Table C.140. AZELLA Stage V Reassessment Form Frequency Distribution at Grade 10**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	0	0.00	0	0.00	50	2405	14	0.61	160	6.96
1	2140	0	0.00	0	0.00	51	2407	9	0.39	169	7.35
2	2185	0	0.00	0	0.00	52	2409	13	0.57	182	7.92
3	2211	0	0.00	0	0.00	53	2411	18	0.78	200	8.70
4	2230	0	0.00	0	0.00	54	2412	11	0.48	211	9.18
5	2245	0	0.00	0	0.00	55	2414	13	0.57	224	9.75
6	2257	0	0.00	0	0.00	56	2416	12	0.52	236	10.27
7	2267	0	0.00	0	0.00	57	2418	13	0.57	249	10.84
8	2276	0	0.00	0	0.00	58	2420	15	0.65	264	11.49
9	2284	0	0.00	0	0.00	59	2421	13	0.57	277	12.05
10	2291	0	0.00	0	0.00	60	2423	14	0.61	291	12.66
11	2297	0	0.00	0	0.00	61	2425	13	0.57	304	13.23
12	2303	0	0.00	0	0.00	<b>62</b>	<b>2427</b>	<b>20</b>	<b>0.87</b>	<b>324</b>	<b>14.10</b>
13	2308	0	0.00	0	0.00	63	2428	19	0.83	343	14.93
14	2313	0	0.00	0	0.00	64	2430	20	0.87	363	15.80
15	2318	0	0.00	0	0.00	65	2432	20	0.87	383	16.67
16	2322	1	0.04	1	0.04	66	2434	21	0.91	404	17.58
17	2326	0	0.00	1	0.04	67	2435	23	1.00	427	18.58
18	2330	0	0.00	1	0.04	68	2437	24	1.04	451	19.63
19	2334	1	0.04	2	0.09	69	2439	19	0.83	470	20.45
20	2337	0	0.00	2	0.09	70	2441	21	0.91	491	21.37
21	2340	0	0.00	2	0.09	71	2442	25	1.09	516	22.45
22	2343	0	0.00	2	0.09	72	2444	21	0.91	537	23.37
23	2347	2	0.09	4	0.17	73	2446	19	0.83	556	24.19
24	2349	1	0.04	5	0.22	74	2448	24	1.04	580	25.24
25	2352	2	0.09	7	0.30	75	2450	19	0.83	599	26.07
26	2355	1	0.04	8	0.35	76	2451	24	1.04	623	27.11
27	2358	1	0.04	9	0.39	77	2453	20	0.87	643	27.98
28	2360	2	0.09	11	0.48	78	2455	28	1.22	671	29.20
29	2363	0	0.00	11	0.48	79	2457	22	0.96	693	30.16
30	2365	6	0.26	17	0.74	80	2459	21	0.91	714	31.07
31	2367	2	0.09	19	0.83	81	2460	27	1.17	741	32.25
32	2370	7	0.30	26	1.13	82	2462	33	1.44	774	33.68
33	2372	1	0.04	27	1.17	83	2464	17	0.74	791	34.42
34	2374	2	0.09	29	1.26	84	2466	26	1.13	817	35.55
35	2376	3	0.13	32	1.39	<b>85</b>	<b>2468</b>	<b>22</b>	<b>0.96</b>	<b>839</b>	<b>36.51</b>
36	2378	8	0.35	40	1.74	86	2469	25	1.09	864	37.60
37	2380	6	0.26	46	2.00	87	2471	29	1.26	893	38.86
38	2382	3	0.13	49	2.13	88	2473	32	1.39	925	40.25
39	2384	7	0.30	56	2.44	89	2475	29	1.26	954	41.51
40	2386	12	0.52	68	2.96	90	2477	30	1.31	984	42.82
41	2388	6	0.26	74	3.22	91	2479	21	0.91	1005	43.73
42	2390	7	0.30	81	3.52	92	2481	37	1.61	1042	45.34
43	2392	11	0.48	92	4.00	93	2483	28	1.22	1070	46.56
44	2394	9	0.39	101	4.40	94	2484	28	1.22	1098	47.78
45	2396	8	0.35	109	4.74	95	2486	31	1.35	1129	49.13
46	2398	10	0.44	119	5.18	96	2488	43	1.87	1172	51.00
47	2400	7	0.30	126	5.48	97	2490	25	1.09	1197	52.09
48	2402	12	0.52	138	6.01	98	2492	33	1.44	1230	53.52
49	2403	8	0.35	146	6.35	99	2494	29	1.26	1259	54.79

**Table C.140. AZELLA Stage V Reassessment Form Frequency Distribution at Grade 10**

100	2496	42	1.83	1301	56.61	150	2640	1	0.04	2290	99.65
101	2498	24	1.04	1325	57.66	151	2646	1	0.04	2291	99.70
102	2500	44	1.91	1369	59.57	152	2651	3	0.13	2294	99.83
103	2502	28	1.22	1397	60.79	153	2657	2	0.09	2296	99.91
104	2504	34	1.48	1431	62.27	154	2664	1	0.04	2297	99.96
105	2506	36	1.57	1467	63.84	155	2670	0	0.00	2297	99.96
106	2508	28	1.22	1495	65.06	156	2677	0	0.00	2297	99.96
107	2510	35	1.52	1530	66.58	157	2685	0	0.00	2297	99.96
108	2512	37	1.61	1567	68.19	158	2693	0	0.00	2297	99.96
109	2514	31	1.35	1598	69.54	159	2701	0	0.00	2297	99.96
110	2516	51	2.22	1649	71.76	160	2710	0	0.00	2297	99.96
111	2519	30	1.31	1679	73.06	161	2720	1	0.04	2298	100.00
112	2521	38	1.65	1717	74.72	162	2730	0	0.00	2298	100.00
113	2523	35	1.52	1752	76.24	163	2741	0	0.00	2298	100.00
114	2525	27	1.17	1779	77.42	164	2753	0	0.00	2298	100.00
115	2527	28	1.22	1807	78.63	165	2767	0	0.00	2298	100.00
116	2530	29	1.26	1836	79.90	166	2782	0	0.00	2298	100.00
117	2532	28	1.22	1864	81.11	167	2799	0	0.00	2298	100.00
118	2534	20	0.87	1884	81.98	168	2819	0	0.00	2298	100.00
119	2537	26	1.13	1910	83.12	169	2843	0	0.00	2298	100.00
120	2539	25	1.09	1935	84.20	170	2875	0	0.00	2298	100.00
121	2541	31	1.35	1966	85.55	171	2926	0	0.00	2298	100.00
122	2544	17	0.74	1983	86.29	172	3000	0	0.00	2298	100.00
123	2546	27	1.17	2010	87.47						
124	2549	20	0.87	2030	88.34						
<b>125</b>	<b>2551</b>	<b>18</b>	<b>0.78</b>	<b>2048</b>	<b>89.12</b>						
126	2554	14	0.61	2062	89.73						
127	2557	25	1.09	2087	90.82						
128	2559	23	1.00	2110	91.82						
129	2562	18	0.78	2128	92.60						
130	2565	20	0.87	2148	93.47						
131	2568	15	0.65	2163	94.13						
132	2571	15	0.65	2178	94.78						
133	2574	9	0.39	2187	95.17						
134	2577	9	0.39	2196	95.56						
135	2580	7	0.30	2203	95.87						
136	2583	9	0.39	2212	96.26						
137	2586	13	0.57	2225	96.82						
138	2590	8	0.35	2233	97.17						
139	2593	11	0.48	2244	97.65						
140	2597	6	0.26	2250	97.91						
141	2600	8	0.35	2258	98.26						
142	2604	6	0.26	2264	98.52						
143	2608	9	0.39	2273	98.91						
144	2612	2	0.09	2275	99.00						
145	2616	2	0.09	2277	99.09						
146	2621	3	0.13	2280	99.22						
147	2625	4	0.17	2284	99.39						
148	2630	1	0.04	2285	99.43						
149	2635	4	0.17	2289	99.61						

**Table C.141. AZELLA Stage V Reassessment Form Frequency Distribution at Grade 11**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	0	0.00	0	0.00	50	2405	7	0.47	68	4.52
1	2140	0	0.00	0	0.00	51	2407	6	0.40	74	4.92
2	2185	0	0.00	0	0.00	52	2409	3	0.20	77	5.12
3	2211	0	0.00	0	0.00	53	2411	5	0.33	82	5.46
4	2230	0	0.00	0	0.00	54	2412	6	0.40	88	5.85
5	2245	0	0.00	0	0.00	55	2414	6	0.40	94	6.25
6	2257	0	0.00	0	0.00	56	2416	13	0.86	107	7.12
7	2267	0	0.00	0	0.00	57	2418	6	0.40	113	7.52
8	2276	0	0.00	0	0.00	58	2420	6	0.40	119	7.92
9	2284	0	0.00	0	0.00	59	2421	8	0.53	127	8.45
10	2291	0	0.00	0	0.00	60	2423	9	0.60	136	9.05
11	2297	0	0.00	0	0.00	61	2425	8	0.53	144	9.58
12	2303	0	0.00	0	0.00	<b>62</b>	<b>2427</b>	<b>5</b>	<b>0.33</b>	<b>149</b>	<b>9.91</b>
13	2308	0	0.00	0	0.00	63	2428	7	0.47	156	10.38
14	2313	0	0.00	0	0.00	64	2430	11	0.73	167	11.11
15	2318	0	0.00	0	0.00	65	2432	13	0.86	180	11.98
16	2322	1	0.07	1	0.07	66	2434	6	0.40	186	12.38
17	2326	0	0.00	1	0.07	67	2435	13	0.86	199	13.24
18	2330	0	0.00	1	0.07	68	2437	13	0.86	212	14.11
19	2334	1	0.07	2	0.13	69	2439	8	0.53	220	14.64
20	2337	0	0.00	2	0.13	70	2441	14	0.93	234	15.57
21	2340	1	0.07	3	0.20	71	2442	8	0.53	242	16.10
22	2343	0	0.00	3	0.20	72	2444	10	0.67	252	16.77
23	2347	1	0.07	4	0.27	73	2446	6	0.40	258	17.17
24	2349	1	0.07	5	0.33	74	2448	9	0.60	267	17.76
25	2352	0	0.00	5	0.33	75	2450	15	1.00	282	18.76
26	2355	0	0.00	5	0.33	76	2451	15	1.00	297	19.76
27	2358	0	0.00	5	0.33	77	2453	14	0.93	311	20.69
28	2360	1	0.07	6	0.40	78	2455	12	0.80	323	21.49
29	2363	0	0.00	6	0.40	79	2457	8	0.53	331	22.02
30	2365	2	0.13	8	0.53	80	2459	17	1.13	348	23.15
31	2367	1	0.07	9	0.60	81	2460	14	0.93	362	24.09
32	2370	2	0.13	11	0.73	82	2462	15	1.00	377	25.08
33	2372	1	0.07	12	0.80	83	2464	14	0.93	391	26.01
34	2374	2	0.13	14	0.93	84	2466	18	1.20	409	27.21
35	2376	1	0.07	15	1.00	<b>85</b>	<b>2468</b>	<b>19</b>	<b>1.26</b>	<b>428</b>	<b>28.48</b>
36	2378	2	0.13	17	1.13	86	2469	16	1.06	444	29.54
37	2380	2	0.13	19	1.26	87	2471	16	1.06	460	30.61
38	2382	4	0.27	23	1.53	88	2473	23	1.53	483	32.14
39	2384	0	0.00	23	1.53	89	2475	22	1.46	505	33.60
40	2386	0	0.00	23	1.53	90	2477	25	1.66	530	35.26
41	2388	3	0.20	26	1.73	91	2479	17	1.13	547	36.39
42	2390	3	0.20	29	1.93	92	2481	20	1.33	567	37.72
43	2392	6	0.40	35	2.33	93	2483	23	1.53	590	39.25
44	2394	3	0.20	38	2.53	94	2484	30	2.00	620	41.25
45	2396	3	0.20	41	2.73	95	2486	18	1.20	638	42.45
46	2398	5	0.33	46	3.06	96	2488	23	1.53	661	43.98
47	2400	7	0.47	53	3.53	97	2490	19	1.26	680	45.24
48	2402	0	0.00	53	3.53	98	2492	20	1.33	700	46.57
49	2403	8	0.53	61	4.06	99	2494	24	1.60	724	48.17

**Table C.141. AZELLA Stage V Reassessment Form Frequency Distribution at Grade 11**

100	2496	25	1.66	749	49.83	150	2640	1	0.07	1501	99.87
101	2498	22	1.46	771	51.30	151	2646	1	0.07	1502	99.93
102	2500	27	1.80	798	53.09	152	2651	0	0.00	1502	99.93
103	2502	24	1.60	822	54.69	153	2657	0	0.00	1502	99.93
104	2504	26	1.73	848	56.42	154	2664	0	0.00	1502	99.93
105	2506	25	1.66	873	58.08	155	2670	1	0.07	1503	100.00
106	2508	23	1.53	896	59.61	156	2677	0	0.00	1503	100.00
107	2510	16	1.06	912	60.68	157	2685	0	0.00	1503	100.00
108	2512	25	1.66	937	62.34	158	2693	0	0.00	1503	100.00
109	2514	30	2.00	967	64.34	159	2701	0	0.00	1503	100.00
110	2516	24	1.60	991	65.93	160	2710	0	0.00	1503	100.00
111	2519	25	1.66	1016	67.60	161	2720	0	0.00	1503	100.00
112	2521	16	1.06	1032	68.66	162	2730	0	0.00	1503	100.00
113	2523	23	1.53	1055	70.19	163	2741	0	0.00	1503	100.00
114	2525	25	1.66	1080	71.86	164	2753	0	0.00	1503	100.00
115	2527	20	1.33	1100	73.19	165	2767	0	0.00	1503	100.00
116	2530	22	1.46	1122	74.65	166	2782	0	0.00	1503	100.00
117	2532	22	1.46	1144	76.11	167	2799	0	0.00	1503	100.00
118	2534	18	1.20	1162	77.31	168	2819	0	0.00	1503	100.00
119	2537	22	1.46	1184	78.78	169	2843	0	0.00	1503	100.00
120	2539	17	1.13	1201	79.91	170	2875	0	0.00	1503	100.00
121	2541	20	1.33	1221	81.24	171	2926	0	0.00	1503	100.00
122	2544	24	1.60	1245	82.83	172	3000	0	0.00	1503	100.00
123	2546	19	1.26	1264	84.10						
124	2549	16	1.06	1280	85.16						
<b>125</b>	<b>2551</b>	<b>22</b>	<b>1.46</b>	<b>1302</b>	<b>86.63</b>						
126	2554	15	1.00	1317	87.62						
127	2557	22	1.46	1339	89.09						
128	2559	11	0.73	1350	89.82						
129	2562	19	1.26	1369	91.08						
130	2565	12	0.80	1381	91.88						
131	2568	13	0.86	1394	92.75						
132	2571	15	1.00	1409	93.75						
133	2574	10	0.67	1419	94.41						
134	2577	10	0.67	1429	95.08						
135	2580	11	0.73	1440	95.81						
136	2583	6	0.40	1446	96.21						
137	2586	10	0.67	1456	96.87						
138	2590	7	0.47	1463	97.34						
139	2593	4	0.27	1467	97.60						
140	2597	6	0.40	1473	98.00						
141	2600	3	0.20	1476	98.20						
142	2604	4	0.27	1480	98.47						
143	2608	3	0.20	1483	98.67						
144	2612	7	0.47	1490	99.14						
145	2616	3	0.20	1493	99.33						
146	2621	2	0.13	1495	99.47						
147	2625	2	0.13	1497	99.60						
148	2630	3	0.20	1500	99.80						
149	2635	0	0.00	1500	99.80						

**Table C.142. AZELLA Stage V Reassessment Form Frequency Distribution at Grade 12**

Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %	Raw Score	Scale Score	Freq.	%	Cum. Freq.	Cum. %
0	2000	0	0.00	0	0.00	50	2405	1	0.10	25	2.59
1	2140	0	0.00	0	0.00	51	2407	1	0.10	26	2.69
2	2185	0	0.00	0	0.00	52	2409	3	0.31	29	3.01
3	2211	0	0.00	0	0.00	53	2411	7	0.73	36	3.73
4	2230	0	0.00	0	0.00	54	2412	6	0.62	42	4.35
5	2245	0	0.00	0	0.00	55	2414	8	0.83	50	5.18
6	2257	0	0.00	0	0.00	56	2416	4	0.41	54	5.60
7	2267	0	0.00	0	0.00	57	2418	4	0.41	58	6.01
8	2276	0	0.00	0	0.00	58	2420	6	0.62	64	6.63
9	2284	0	0.00	0	0.00	59	2421	5	0.52	69	7.15
10	2291	0	0.00	0	0.00	60	2423	4	0.41	73	7.56
11	2297	0	0.00	0	0.00	61	2425	6	0.62	79	8.19
12	2303	0	0.00	0	0.00	<b>62</b>	<b>2427</b>	<b>7</b>	<b>0.73</b>	<b>86</b>	<b>8.91</b>
13	2308	0	0.00	0	0.00	63	2428	4	0.41	90	9.33
14	2313	0	0.00	0	0.00	64	2430	9	0.93	99	10.26
15	2318	0	0.00	0	0.00	65	2432	4	0.41	103	10.67
16	2322	0	0.00	0	0.00	66	2434	9	0.93	112	11.61
17	2326	0	0.00	0	0.00	67	2435	6	0.62	118	12.23
18	2330	0	0.00	0	0.00	68	2437	9	0.93	127	13.16
19	2334	0	0.00	0	0.00	69	2439	6	0.62	133	13.78
20	2337	0	0.00	0	0.00	70	2441	6	0.62	139	14.40
21	2340	0	0.00	0	0.00	71	2442	13	1.35	152	15.75
22	2343	0	0.00	0	0.00	72	2444	8	0.83	160	16.58
23	2347	0	0.00	0	0.00	73	2446	12	1.24	172	17.82
24	2349	0	0.00	0	0.00	74	2448	8	0.83	180	18.65
25	2352	0	0.00	0	0.00	75	2450	3	0.31	183	18.96
26	2355	0	0.00	0	0.00	76	2451	10	1.04	193	20.00
27	2358	0	0.00	0	0.00	77	2453	14	1.45	207	21.45
28	2360	0	0.00	0	0.00	78	2455	8	0.83	215	22.28
29	2363	0	0.00	0	0.00	79	2457	8	0.83	223	23.11
30	2365	0	0.00	0	0.00	80	2459	13	1.35	236	24.46
31	2367	0	0.00	0	0.00	81	2460	16	1.66	252	26.11
32	2370	0	0.00	0	0.00	82	2462	13	1.35	265	27.46
33	2372	0	0.00	0	0.00	83	2464	12	1.24	277	28.70
34	2374	2	0.21	2	0.21	84	2466	7	0.73	284	29.43
35	2376	1	0.10	3	0.31	<b>85</b>	<b>2468</b>	<b>8</b>	<b>0.83</b>	<b>292</b>	<b>30.26</b>
36	2378	2	0.21	5	0.52	86	2469	7	0.73	299	30.98
37	2380	1	0.10	6	0.62	87	2471	12	1.24	311	32.23
38	2382	0	0.00	6	0.62	88	2473	9	0.93	320	33.16
39	2384	2	0.21	8	0.83	89	2475	15	1.55	335	34.72
40	2386	1	0.10	9	0.93	90	2477	11	1.14	346	35.85
41	2388	2	0.21	11	1.14	91	2479	10	1.04	356	36.89
42	2390	0	0.00	11	1.14	92	2481	8	0.83	364	37.72
43	2392	2	0.21	13	1.35	93	2483	11	1.14	375	38.86
44	2394	2	0.21	15	1.55	94	2484	5	0.52	380	39.38
45	2396	1	0.10	16	1.66	95	2486	26	2.69	406	42.07
46	2398	0	0.00	16	1.66	96	2488	13	1.35	419	43.42
47	2400	1	0.10	17	1.76	97	2490	11	1.14	430	44.56
48	2402	5	0.52	22	2.28	98	2492	14	1.45	444	46.01
49	2403	2	0.21	24	2.49	99	2494	14	1.45	458	47.46

**Table C.142. AZELLA Stage V Reassessment Form Frequency Distribution at Grade 12**

100	2496	12	1.24	470	48.70	150	2640	0	0.00	957	99.17
101	2498	5	0.52	475	49.22	151	2646	1	0.10	958	99.27
102	2500	15	1.55	490	50.78	152	2651	2	0.21	960	99.48
103	2502	17	1.76	507	52.54	153	2657	2	0.21	962	99.69
104	2504	15	1.55	522	54.09	154	2664	0	0.00	962	99.69
105	2506	19	1.97	541	56.06	155	2670	0	0.00	962	99.69
106	2508	14	1.45	555	57.51	156	2677	1	0.10	963	99.79
107	2510	16	1.66	571	59.17	157	2685	0	0.00	963	99.79
108	2512	15	1.55	586	60.73	158	2693	1	0.10	964	99.90
109	2514	14	1.45	600	62.18	159	2701	0	0.00	964	99.90
110	2516	22	2.28	622	64.46	160	2710	0	0.00	964	99.90
111	2519	13	1.35	635	65.80	161	2720	1	0.10	965	100.00
112	2521	24	2.49	659	68.29	162	2730	0	0.00	965	100.00
113	2523	16	1.66	675	69.95	163	2741	0	0.00	965	100.00
114	2525	14	1.45	689	71.40	164	2753	0	0.00	965	100.00
115	2527	14	1.45	703	72.85	165	2767	0	0.00	965	100.00
116	2530	13	1.35	716	74.20	166	2782	0	0.00	965	100.00
117	2532	18	1.87	734	76.06	167	2799	0	0.00	965	100.00
118	2534	14	1.45	748	77.51	168	2819	0	0.00	965	100.00
119	2537	13	1.35	761	78.86	169	2843	0	0.00	965	100.00
120	2539	8	0.83	769	79.69	170	2875	0	0.00	965	100.00
121	2541	10	1.04	779	80.73	171	2926	0	0.00	965	100.00
122	2544	15	1.55	794	82.28	172	3000	0	0.00	965	100.00
123	2546	8	0.83	802	83.11						
124	2549	13	1.35	815	84.46						
<b>125</b>	<b>2551</b>	<b>12</b>	<b>1.24</b>	<b>827</b>	<b>85.70</b>						
126	2554	7	0.73	834	86.42						
127	2557	7	0.73	841	87.15						
128	2559	13	1.35	854	88.50						
129	2562	8	0.83	862	89.33						
130	2565	13	1.35	875	90.67						
131	2568	6	0.62	881	91.30						
132	2571	9	0.93	890	92.23						
133	2574	6	0.62	896	92.85						
134	2577	5	0.52	901	93.37						
135	2580	12	1.24	913	94.61						
136	2583	5	0.52	918	95.13						
137	2586	3	0.31	921	95.44						
138	2590	3	0.31	924	95.75						
139	2593	3	0.31	927	96.06						
140	2597	6	0.62	933	96.68						
141	2600	3	0.31	936	96.99						
142	2604	5	0.52	941	97.51						
143	2608	3	0.31	944	97.82						
144	2612	4	0.41	948	98.24						
145	2616	4	0.41	952	98.65						
146	2621	2	0.21	954	98.86						
147	2625	1	0.10	955	98.96						
148	2630	2	0.21	957	99.17						
149	2635	0	0.00	957	99.17						

## **Appendix D. AZELLA PLACEMENT ADMINISTRATION RESULTS**

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This appendix presents the results of the AZELLA 2016-2017 operational administration from July 2015 through May 2016. The Kindergarten Placement Test and Stages II through V tests were used for placement only during this period. A revised AZELLA test form for Stages I through V was developed and used for reassessment at the end of the academic year, and those results are not included here. Analyses are provided for all the reporting strands. For the Kindergarten Placement Test, there is only one strand based on the total score. The following are the reporting strands for the Stages II through V Placement tests:

- Listening,
- Speaking,
- Reading,
- Writing,
- Language,
- Oral Communication (Listening + Speaking),
- Comprehension (Listening + Reading),
- Literacy (Reading + Writing), and
- Total Combined (Listening + Speaking + Reading + Writing).

Overall proficiency levels for the Stages II through V Placement assessments are determined based on the proficiency levels on Total Combined, Reading, and Writing. Students will be Overall Proficient only if they are Proficient on the Total Combined score plus both the Reading and Writing domains.

Table D.1 through table D.4 show the percentages of students in each of the proficiency categories by grade for each strand. The table also provides the total N-counts corresponding to the proficiency categories.

Table D.5 through table D.8 provide the raw score and scaled score descriptive statistics by grade. Note that there is no raw or scale score associated with Overall for the Stages II through V tests. The tables include the following information:

- number of students,
- means,
- median,
- standard deviations, and
- inter quartile range (IQR).

Please refer to the 2014 Technical Report (Arizona Department of Education, 2014b) for item level statistics and reliability indices for the AZELLA Placement tests.

**Table D.1. Percent of Students at Each Proficiency Level on Kindergarten Placement Test**

Grade	N	% at Proficiency Level		
		Pre-Emergent/ Emergent	Basic/ Intermediate	Proficient
Kindergarten	20508	19	47	34

**Table D.2. Percent of Students at Each Proficiency Level in Overall by Grade for Stages II through V Tests**

Grade	N	*% at Proficiency Level			
		Pre-Emergent/ Emergent	Basic	Intermediate	Proficient
01	3161	31	34	25	10
02	2945	37	22	22	19
03	1847	47	18	23	12
04	3133	33	15	40	12
05	1757	47	10	28	15
06	1740	40	9	36	15
07	1920	39	8	39	14
08	1856	37	7	40	16
09	4330	64	6	18	12
10	1271	31	11	36	22
11	960	18	11	38	33
12	773	14	10	34	42

**Table D.3. Percent of Students at Each Proficiency Level in Each Domain and Subdomain by Grade for Stages II through V Tests**

Grade	Domain/Subdomain	N	% at Proficiency Level		
			Pre-Emergent/ Emergent/ Basic	Intermediate	Proficient
01	Listening	3161	50	23	28
	Speaking	3161	44	19	37
	Reading	3161	67	17	16
	Writing	3161	70	18	12
	Language	3161	64	21	15
	Oral	3161	46	29	25
	Comprehension	3161	65	19	16
	Literacy	3161	73	14	14
02	Listening	2945	55	19	26
	Speaking	2945	48	24	28
	Reading	2945	58	13	29
	Writing	2945	61	16	23
	Language	2945	59	19	21
	Oral	2945	54	22	24
	Comprehension	2945	56	19	25
	Literacy	2945	61	14	25
03	Listening	1847	66	15	19
	Speaking	1847	61	17	22
	Reading	1847	62	24	15
	Writing	1847	63	11	26
	Language	1847	64	19	17
	Oral	1847	62	18	19
	Comprehension	1847	63	19	18
	Literacy	1847	63	15	22

		<b>% at Proficiency Level</b>			
04	Listening	3133	56	11	33
	Speaking	3133	47	10	43
	Reading	3133	48	34	18
	Writing	3133	50	25	25
	Language	3133	45	27	27
	Oral	3133	49	21	30
	Comprehension	3133	48	29	23
	Literacy	3133	47	36	18
05	Listening	1757	60	6	34
	Speaking	1757	57	7	36
	Reading	1757	56	20	25
	Writing	1757	55	21	24
	Language	1757	57	21	22
	Oral	1757	59	11	30
	Comprehension	1757	55	17	28
	Literacy	1757	54	23	23
06	Listening	1740	54	17	28
	Speaking	1740	49	9	42
	Reading	1740	49	27	24
	Writing	1740	48	27	25
	Language	1740	48	26	27
	Oral	1740	52	16	31
	Comprehension	1740	52	19	29
	Literacy	1740	47	25	27
07	Listening	1920	50	17	33
	Speaking	1920	52	7	41
	Reading	1920	47	33	20
	Writing	1920	48	28	24
	Language	1920	48	25	27
	Oral	1920	51	14	35
	Comprehension	1920	46	27	28
	Literacy	1920	46	30	25
08	Listening	1856	48	15	38
	Speaking	1856	51	8	41
	Reading	1856	42	38	20
	Writing	1856	44	27	29
	Language	1856	45	25	30
	Oral	1856	49	13	38
	Comprehension	1856	42	29	29
	Literacy	1856	43	32	25
09	Listening	4330	69	7	23
	Speaking	4330	72	6	23
	Reading	4330	68	17	14
	Writing	4330	69	13	18
	Language	4330	71	14	16
	Oral	4330	72	6	22
	Comprehension	4330	69	13	18
	Literacy	4330	69	14	16
10	Listening	1271	42	13	46
	Speaking	1271	45	11	44
	Reading	1271	38	33	29
	Writing	1271	39	26	35
	Language	1271	42	30	28
	Oral	1271	46	10	44
	Comprehension	1271	41	23	36
	Literacy	1271	40	28	32
11	Listening	960	30	12	58
	Speaking	960	32	16	52
	Reading	960	25	34	41
	Writing	960	27	25	48
	Language	960	29	32	39

		% at Proficiency Level			
	Oral	960	32	12	56
	Comprehension	960	27	24	49
	Literacy	960	26	29	46
12	Listening	773	23	10	66
	Speaking	773	29	13	58
	Reading	773	20	32	48
	Writing	773	21	24	54
	Language	773	25	28	47
	Oral	773	27	10	63
	Comprehension	773	23	19	58
	Literacy	773	21	26	52

**Table D.4. Percent of Students at Each Proficiency Level in Total Combined by Grade for Stages II through V Tests**

		% at Proficiency Level			
Grade	N	Pre-Emergent/ Emergent	Basic	Intermediate	Proficient
01	3161	31	34	20	15
02	2945	37	22	18	23
03	1847	47	18	20	15
04	3133	33	15	35	17
05	1757	47	10	26	17
06	1740	40	9	33	18
07	1920	39	8	34	19
08	1856	37	7	33	22
09	4330	64	6	15	15
10	1271	31	11	30	28
11	960	18	11	30	41
12	773	14	10	29	48

**Table D.5. Raw Score Descriptive Statistics on Kindergarten Placement Test**

Grade	N	Mean	Median	SD	*IQR
Kindergarten	20508	29.88	34	11.79	14

\*Interquartile range (IQR) is a difference between a value at 75<sup>th</sup> percentile and 25<sup>th</sup> percentile.

**Table D.6. Raw Score Descriptive Statistics in Each Domain and Subdomain by Grade for Stages II through V Tests**

Grade	Domain/Subdomain	N	Mean	Median	SD	*IQR
01	Listening	3161	13.05	14.0	6.87	10.0
	Speaking	3161	11.84	14.0	6.68	10.0
	Reading	3161	16.80	16.0	10.50	12.0
	Writing	3161	12.04	10.0	8.74	10.0
	Language	3161	32.81	33.0	17.21	22.0
	Oral	3161	24.89	27.0	12.21	18.0
	Comprehension	3161	29.85	28.0	16.00	18.0
	Literacy	3161	28.84	26.0	18.24	18.0
	Total Combined	3161	53.73	52.0	28.13	32.0
02	Listening	2945	15.35	16.0	7.76	12.0
	Speaking	2945	13.39	16.0	7.31	11.0
	Reading	2945	23.82	24.0	13.28	20.0
	Writing	2945	17.42	18.0	10.78	16.0
	Language	2945	41.54	46.0	21.42	35.0

Grade	Domain/Subdomain	N	Mean	Median	SD	*IQR
	Oral	2945	28.73	33.0	14.01	21.0
	Comprehension	2945	39.16	40.0	19.99	30.0
	Literacy	2945	41.24	40.0	23.29	36.0
	Total Combined	2945	69.97	73.0	35.81	55.0
03	Listening	1847	11.63	12.0	7.36	12.0
	Speaking	1847	14.23	18.0	9.03	17.0
	Reading	1847	18.50	18.0	12.27	18.0
	Writing	1847	19.06	18.0	14.32	26.0
	Language	1847	35.28	37.0	23.18	42.0
	Oral	1847	25.87	29.0	15.21	27.0
	Comprehension	1847	30.14	28.0	18.67	26.0
	Literacy	1847	37.56	34.0	25.68	38.0
Total Combined	1847	63.43	64.0	39.44	65.0	
04	Listening	3133	14.67	16.0	7.41	10.0
	Speaking	3133	17.78	22.0	8.38	10.0
	Reading	3133	24.48	26.0	12.65	20.0
	Writing	3133	25.74	30.0	14.20	22.0
	Language	3133	46.62	55.0	22.91	35.0
	Oral	3133	32.46	38.0	14.74	21.0
	Comprehension	3133	39.15	42.0	18.97	30.0
	Literacy	3133	50.23	56.0	25.91	42.0
	Total Combined	3133	82.68	94.0	39.25	60.0
05	Listening	1757	13.34	14.0	8.49	14.0
	Speaking	1757	15.09	20.0	9.48	18.0
	Reading	1757	23.74	24.0	15.29	24.0
	Writing	1757	23.51	26.0	16.77	30.0
	Language	1757	41.26	48.0	26.92	52.0
	Oral	1757	28.43	33.0	17.13	32.0
	Comprehension	1757	37.09	38.0	22.97	38.0
	Literacy	1757	47.25	48.0	31.38	56.0
	Total Combined	1757	75.69	83.0	47.35	84.0
06	Listening	1740	13.18	14.0	7.94	12.0
	Speaking	1740	14.62	19.0	8.98	17.0
	Reading	1740	23.49	24.0	14.35	20.0
	Writing	1740	23.40	24.0	16.23	29.0
	Language	1740	37.37	44.0	23.81	44.0
	Oral	1740	27.81	32.5	15.98	29.0
	Comprehension	1740	36.68	38.0	21.50	34.0
	Literacy	1740	46.89	48.0	29.73	50.0
	Total Combined	1740	74.69	83.0	44.63	76.0
07	Listening	1920	13.83	14.0	8.12	12.0
	Speaking	1920	14.18	18.0	9.34	19.0
	Reading	1920	24.79	24.0	14.74	22.0
	Writing	1920	24.30	26.0	16.60	28.0
	Language	1920	37.72	44.5	24.58	47.0
	Oral	1920	28.01	33.0	16.48	30.0
	Comprehension	1920	38.62	40.0	22.01	34.0
	Literacy	1920	49.09	50.0	30.50	50.0
	Total Combined	1920	77.10	84.5	45.78	80.0
08	Listening	1856	14.37	16.0	8.46	14.0
	Speaking	1856	14.32	18.0	9.20	18.0
	Reading	1856	26.05	28.0	15.51	24.0
	Writing	1856	25.71	28.0	17.10	30.0
	Language	1856	39.29	47.0	25.22	48.0
	Oral	1856	28.68	34.0	16.80	30.0
	Comprehension	1856	40.41	42.0	23.23	38.0
	Literacy	1856	51.76	56.0	31.82	52.0
	Total Combined	1856	80.44	91.0	47.68	84.0
09	Listening	4330	8.29	6.0	9.14	16.0
	Speaking	4330	9.30	3.0	10.44	22.0
	Reading	4330	17.78	14.0	18.46	34.0

Grade	Domain/Subdomain	N	Mean	Median	SD	*IQR
	Writing	4330	15.34	8.0	17.04	32.0
	Language	4330	21.21	11.0	22.99	46.0
	Oral	4330	17.58	10.0	18.98	37.0
	Comprehension	4330	26.07	20.0	27.09	50.0
	Literacy	4330	33.12	24.0	35.03	66.0
	Total Combined	4330	50.70	35.0	53.36	102.0
10	Listening	1271	14.85	16.0	8.19	14.0
	Speaking	1271	17.21	21.0	8.57	14.0
	Reading	1271	31.66	34.0	15.18	24.0
	Writing	1271	27.87	30.0	14.85	24.0
	Language	1271	38.73	45.0	19.00	33.0
	Oral	1271	32.06	36.0	15.69	28.0
	Comprehension	1271	46.51	50.0	22.52	38.0
	Literacy	1271	59.53	64.0	29.20	50.0
	Total Combined	1271	91.59	101.0	43.77	76.0
11	Listening	960	16.98	20.0	8.02	14.0
	Speaking	960	19.47	23.0	7.41	8.0
	Reading	960	36.25	40.0	14.29	21.0
	Writing	960	32.30	36.0	13.97	18.0
	Language	960	44.44	50.5	17.09	23.0
	Oral	960	36.44	42.0	14.44	20.0
	Comprehension	960	53.22	58.0	21.38	32.0
	Literacy	960	68.54	76.0	27.37	38.0
	Total Combined	960	104.98	118.0	40.69	56.5
12	Listening	773	18.43	20.0	7.67	10.0
	Speaking	773	20.27	23.0	6.96	7.0
	Reading	773	38.56	42.0	13.85	20.0
	Writing	773	34.52	38.0	13.27	16.0
	Language	773	46.94	53.0	16.18	20.0
	Oral	773	38.71	44.0	13.75	17.0
	Comprehension	773	57.00	64.0	20.60	30.0
	Literacy	773	73.08	80.0	26.30	34.0
	Total Combined	773	111.79	124.0	38.82	52.0

\*Interquartile range (IQR) is a difference between a value at 75<sup>th</sup> percentile and 25<sup>th</sup> percentile.

NOTE: Raw score in Language is not present due to unavailability in Student Data

**Table D.7. Scale Score Descriptive Statistics on Kindergarten Placement Test**

Grade	N	Mean	Median	SD	*IQR
Kindergarten	20508	234.46	242	45.2	51

\*Interquartile range (IQR) is a difference between a value at 75<sup>th</sup> percentile and 25<sup>th</sup> percentile.

**Table D.8. Scale Score Descriptive Statistics in Each Domain and Subdomain by Grade for Stages II through V Tests**

Grade	Domain/Subdomain	N	Mean	Median	SD	*IQR
01	Listening	3161	224.85	232.0	53.23	51.0
	Speaking	3161	223.39	238.0	50.79	51.0
	Reading	3161	217.38	222.0	42.63	35.0
	Writing	3161	206.14	209.0	50.81	38.0
	Language	3161	216.45	220.0	39.84	34.0
	Oral	3161	224.85	232.0	41.86	45.0
	Comprehension	3161	220.06	222.0	41.43	33.0
	Literacy	3161	214.01	216.0	41.80	30.0
	Total Combined	3161	2311.85	2320.0	92.63	69.0
02	Listening	2945	223.05	223.0	62.35	64.0
	Speaking	2945	215.81	231.0	51.73	62.0

<b>Grade</b>	<b>Domain/Subdomain</b>	<b>N</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>*IQR</b>
	Reading	2945	220.11	224.0	49.32	54.0
	Writing	2945	212.33	217.0	56.64	55.0
	Language	2945	213.95	222.0	47.26	60.0
	Oral	2945	217.54	229.0	46.63	56.0
	Comprehension	2945	219.55	223.0	48.34	53.0
	Literacy	2945	216.34	218.0	48.52	55.0
	Total Combined	2945	2348.32	2364.0	114.58	120.0
03	Listening	1847	209.18	218.0	54.71	65.0
	Speaking	1847	206.12	215.0	57.33	74.0
	Reading	1847	211.50	223.0	47.64	37.0
	Writing	1847	202.87	206.0	61.08	85.0
	Language	1847	210.07	214.0	44.70	53.0
	Oral	1847	207.88	214.0	48.76	65.0
	Comprehension	1847	211.91	218.0	46.13	40.0
	Literacy	1847	206.28	209.0	54.84	60.0
	Total Combined	1847	2357.43	2376.0	129.54	133.0
04	Listening	3133	220.95	228.0	56.82	58.0
	Speaking	3133	223.82	236.0	60.52	90.0
	Reading	3133	222.49	231.0	38.27	32.0
	Writing	3133	220.61	232.0	46.79	43.0
	Language	3133	223.72	233.0	40.26	49.0
	Oral	3133	219.40	230.0	51.45	71.0
	Comprehension	3133	222.37	231.0	39.98	41.0
	Literacy	3133	221.62	232.0	39.81	39.0
	Total Combined	3133	2408.65	2439.0	119.82	129.0
05	Listening	1757	206.35	209.0	72.47	104.0
	Speaking	1757	203.18	207.0	76.37	144.0
	Reading	1757	216.43	226.0	52.00	43.0
	Writing	1757	211.89	223.0	56.67	51.0
	Language	1757	214.97	222.0	44.82	55.0
	Oral	1757	201.49	204.0	68.78	117.0
	Comprehension	1757	213.91	222.0	54.37	62.0
	Literacy	1757	213.83	222.0	51.24	55.0
	Total Combined	1757	2387.41	2415.0	153.51	181.0
06	Listening	1740	216.17	224.0	64.92	77.0
	Speaking	1740	224.34	232.0	74.68	119.0
	Reading	1740	219.82	231.0	47.46	35.0
	Writing	1740	220.16	231.0	53.61	43.0
	Language	1740	222.96	232.0	42.45	43.0
	Oral	1740	217.10	225.5	61.34	89.0
	Comprehension	1740	219.57	229.0	50.04	53.0
	Literacy	1740	221.11	231.0	49.05	45.0
	Total Combined	1740	2415.62	2449.0	145.79	148.0
07	Listening	1920	221.16	224.0	66.73	77.0
	Speaking	1920	222.28	225.0	79.67	131.0
	Reading	1920	221.50	231.0	45.52	31.0
	Writing	1920	221.69	234.0	51.78	34.0
	Language	1920	222.81	232.5	43.95	45.0
	Oral	1920	218.48	227.0	63.70	92.0
	Comprehension	1920	222.24	232.0	47.46	44.0
	Literacy	1920	222.43	232.0	46.03	35.0
	Total Combined	1920	2420.46	2451.5	150.59	157.0
08	Listening	1856	226.11	236.0	71.30	93.0
	Speaking	1856	222.11	225.0	77.37	124.0
	Reading	1856	222.07	235.0	47.83	28.0
	Writing	1856	223.19	236.0	54.65	37.0
	Language	1856	224.20	235.0	44.92	44.0
	Oral	1856	221.73	231.0	66.40	95.0
	Comprehension	1856	223.44	234.0	49.53	44.0
	Literacy	1856	222.70	235.0	46.83	31.0
	Total Combined	1856	2425.46	2464.0	161.91	168.0

<b>Grade</b>	<b>Domain/Subdomain</b>	<b>N</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>*IQR</b>
09	Listening	4330	178.15	186.0	77.14	140.0
	Speaking	4330	178.27	166.0	81.28	148.0
	Reading	4330	180.08	210.0	71.53	138.0
	Writing	4330	177.54	202.0	68.82	140.0
	Language	4330	179.90	202.0	65.29	137.0
	Oral	4330	178.18	178.0	73.54	140.0
	Comprehension	4330	179.56	202.0	70.01	139.0
	Literacy	4330	178.59	208.0	68.10	139.0
	Total Combined	4330	2289.49	2375.0	237.95	495.0
10	Listening	1271	236.14	240.0	62.64	75.0
	Speaking	1271	238.83	240.0	60.60	82.0
	Reading	1271	233.78	238.0	44.00	34.0
	Writing	1271	230.23	236.0	41.02	40.0
	Language	1271	232.23	236.0	28.87	40.0
	Oral	1271	235.94	237.0	51.95	78.0
	Comprehension	1271	233.82	239.0	43.85	47.0
	Literacy	1271	231.35	237.0	37.42	39.0
	Total Combined	1271	2480.52	2493.0	112.87	151.0
11	Listening	960	251.51	262.0	64.21	81.0
	Speaking	960	253.35	260.0	56.90	85.0
	Reading	960	242.05	246.0	42.11	32.5
	Writing	960	239.24	247.0	38.91	33.0
	Language	960	239.95	244.0	28.35	34.0
	Oral	960	250.24	257.0	50.69	69.0
	Comprehension	960	243.90	249.0	41.06	42.0
	Literacy	960	239.70	247.0	35.68	32.0
	Total Combined	960	2510.77	2530.0	109.48	129.0
12	Listening	773	262.45	262.0	62.93	61.0
	Speaking	773	260.59	260.0	56.50	81.0
	Reading	773	250.28	249.0	47.50	35.0
	Writing	773	244.52	251.0	36.57	32.0
	Language	773	243.92	249.0	27.34	34.0
	Oral	773	258.64	265.0	49.92	67.0
	Comprehension	773	251.21	257.0	41.64	44.0
	Literacy	773	244.66	250.0	34.29	30.0
	Total Combined	773	2528.54	2546.0	106.72	129.0

\*Interquartile range (IQR) is a difference between a value at 75<sup>th</sup> percentile and 25<sup>th</sup> percentile.

## Appendix E. AZELLA REASSESSMENT RELIABILITY

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This appendix presents reliability indices for Spring 2017 AZELLA Reassessment. Table E.1 through table E.25 present coefficient alpha and SEM by subgroup.

**Table E.1. Coefficient Alpha and SEM by Subgroup in Total Combined on Stage I**

Group	N	Coefficient Alpha	SEM
Male	6604	0.903	3.579
Female	5946	0.902	3.548
Hispanic	10765	0.899	3.566
Asian	461	0.918	3.581
American Indian or Alaskan Native	231	0.891	3.654
Black or African American	246	0.939	3.580
Native Hawaiian or Other Pacific Islander	46	0.909	3.561
Multiple Indication	1332	0.900	3.536
White	9631	0.900	3.554
Special Ed.	839	0.901	3.625
FRL	8568	0.902	3.565

**Table E.2. Coefficient Alpha and SEM by Subgroup in Listening on Stage I**

Group	N	Coefficient Alpha	SEM
Male	6604	0.742	1.532
Female	5946	0.744	1.485
Hispanic	10765	0.738	1.513
Asian	461	0.784	1.454
American Indian or Alaskan Native	231	0.726	1.544
Black or African American	246	0.809	1.548
Native Hawaiian or Other Pacific Islander	46	0.714	1.550
Multiple Indication	1332	0.734	1.491
White	9631	0.740	1.510
Special Ed.	839	0.739	1.586
FRL	8568	0.741	1.511

**Table E.3. Coefficient Alpha and SEM by Subgroup in Speaking on Stage I**

Group	N	Coefficient Alpha	SEM
Male	6604	0.690	1.746
Female	5946	0.680	1.732
Hispanic	10765	0.676	1.733
Asian	461	0.735	1.846
American Indian or Alaskan Native	231	0.633	1.800
Black or African American	246	0.787	1.785
Native Hawaiian or Other Pacific Islander	46	0.720	1.684
Multiple Indication	1332	0.681	1.710
White	9631	0.675	1.728
Special Ed.	839	0.680	1.793
FRL	8568	0.683	1.731

**Table E.4. Coefficient Alpha and SEM by Subgroup in Reading on Stage I**

Group	N	Coefficient Alpha	SEM
Male	6604	0.771	1.827
Female	5946	0.789	1.795
Hispanic	10765	0.773	1.822
Asian	461	0.807	1.717
American Indian or Alaskan Native	231	0.762	1.841
Black or African American	246	0.835	1.824
Native Hawaiian or Other Pacific Islander	46	0.766	1.879
Multiple Indication	1332	0.782	1.788
White	9631	0.776	1.816
Special Ed.	839	0.761	1.890
FRL	8568	0.776	1.820

**Table E.5. Coefficient Alpha and SEM by Subgroup in Writing on Stage I**

Group	N	Coefficient Alpha	SEM
Male	6604	0.837	1.701
Female	5946	0.829	1.729
Hispanic	10765	0.831	1.714
Asian	461	0.850	1.732
American Indian or Alaskan Native	231	0.814	1.802
Black or African American	246	0.878	1.636
Native Hawaiian or Other Pacific Islander	46	0.839	1.692
Multiple Indication	1332	0.832	1.724
White	9631	0.829	1.711
Special Ed.	839	0.834	1.660
FRL	8568	0.835	1.714

**Table E.6. Coefficient Alpha and SEM by Subgroup in Total Combined on Stage II**

Group	N	Coefficient Alpha	SEM
Male	9716	0.902	9.354
Female	8395	0.903	9.338
Hispanic	15681	0.899	9.306
Asian	466	0.922	9.344
American Indian or Alaskan Native	445	0.885	9.186
Black or African American	339	0.930	10.278
Native Hawaiian or Other Pacific Islander	53	0.899	9.774
Multiple Indication	2404	0.904	9.274
White	13779	0.900	9.327
Special Ed.	1815	0.882	9.408
FRL	13052	0.901	9.334

**Table E.7. Coefficient Alpha and SEM by Subgroup in Listening on Stage II**

Group	N	Coefficient Alpha	SEM
Male	9716	0.698	1.631
Female	8395	0.698	1.606
Hispanic	15681	0.694	1.619
Asian	466	0.744	1.575
American Indian or Alaskan Native	445	0.674	1.660
Black or African American	339	0.713	1.650
Native Hawaiian or Other Pacific Islander	53	0.657	1.685
Multiple Indication	2404	0.705	1.617
White	13779	0.697	1.618
Special Ed.	1815	0.657	1.694
FRL	13052	0.697	1.619

**Table E.8. Coefficient Alpha and SEM by Subgroup in Speaking on Stage II**

Group	N	Coefficient Alpha	SEM
Male	9716	0.811	2.614
Female	8395	0.827	2.608
Hispanic	15681	0.808	2.608
Asian	466	0.855	2.605
American Indian or Alaskan Native	445	0.740	2.600
Black or African American	339	0.929	2.534
Native Hawaiian or Other Pacific Islander	53	0.839	2.746
Multiple Indication	2404	0.810	2.605
White	13779	0.810	2.616
Special Ed.	1815	0.803	2.594
FRL	13052	0.813	2.612

**Table E.9. Coefficient Alpha and SEM by Subgroup in Reading on Stage II**

Group	N	Coefficient Alpha	SEM
Male	9716	0.801	2.397
Female	8395	0.802	2.367
Hispanic	15681	0.798	2.384
Asian	466	0.823	2.366
American Indian or Alaskan Native	445	0.804	2.373
Black or African American	339	0.827	2.348
Native Hawaiian or Other Pacific Islander	53	0.777	2.425
Multiple Indication	2404	0.808	2.376
White	13779	0.798	2.386
Special Ed.	1815	0.757	2.388
FRL	13052	0.799	2.386

**Table E.10. Coefficient Alpha and SEM by Subgroup in Writing on Stage II**

Group	N	Coefficient Alpha	SEM
Male	9716	0.772	1.994
Female	8395	0.764	1.970
Hispanic	15681	0.764	1.985
Asian	466	0.809	1.895
American Indian or Alaskan Native	445	0.740	2.015
Black or African American	339	0.777	2.102
Native Hawaiian or Other Pacific Islander	53	0.736	2.048
Multiple Indication	2404	0.775	1.963
White	13779	0.766	1.984
Special Ed.	1815	0.741	2.043
FRL	13052	0.765	1.988

**Table E.11. Coefficient Alpha and SEM by Subgroup in Total Combined on Stage III**

Group	N	Coefficient Alpha	SEM
Male	12535	0.906	9.461
Female	10247	0.909	9.441
Hispanic	19727	0.902	9.350
Asian	512	0.929	9.769
American Indian or Alaskan Native	764	0.888	9.298
Black or African American	499	0.935	10.752
Native Hawaiian or Other Pacific Islander	52	0.916	9.284
Multiple Indication	2756	0.904	9.423
White	17455	0.904	9.388
Special Ed.	2827	0.877	9.465
FRL	16831	0.907	9.437

**Table E.12. Coefficient Alpha and SEM by Subgroup in Listening on Stage III**

Group	N	Coefficient Alpha	SEM
Male	12535	0.642	1.688
Female	10247	0.621	1.689
Hispanic	19727	0.620	1.690
Asian	512	0.723	1.636
American Indian or Alaskan Native	764	0.598	1.688
Black or African American	499	0.695	1.690
Native Hawaiian or Other Pacific Islander	52	0.723	1.623
Multiple Indication	2756	0.640	1.688
White	17455	0.624	1.690
Special Ed.	2827	0.594	1.716
FRL	16831	0.626	1.690

**Table E.13. Coefficient Alpha and SEM by Subgroup in Speaking on Stage III**

Group	N	Coefficient Alpha	SEM
Male	12535	0.818	2.634
Female	10247	0.851	2.535
Hispanic	19727	0.818	2.570
Asian	512	0.856	2.758
American Indian or Alaskan Native	764	0.751	2.668
Black or African American	499	0.928	2.679
Native Hawaiian or Other Pacific Islander	52	0.818	2.657
Multiple Indication	2756	0.808	2.636
White	17455	0.826	2.574
Special Ed.	2827	0.730	2.749
FRL	16831	0.835	2.577

**Table E.14. Coefficient Alpha and SEM by Subgroup in Reading on Stage III**

Group	N	Coefficient Alpha	SEM
Male	12535	0.790	2.310
Female	10247	0.788	2.298
Hispanic	19727	0.783	2.309
Asian	512	0.831	2.256
American Indian or Alaskan Native	764	0.766	2.318
Black or African American	499	0.819	2.254
Native Hawaiian or Other Pacific Islander	52	0.792	2.308
Multiple Indication	2756	0.786	2.307
White	17455	0.785	2.308
Special Ed.	2827	0.738	2.307
FRL	16831	0.785	2.308

**Table E.15. Coefficient Alpha and SEM by Subgroup in Writing on Stage III**

Group	N	Coefficient Alpha	SEM
Male	12535	0.813	2.102
Female	10247	0.816	2.088
Hispanic	19727	0.811	2.077
Asian	512	0.822	2.198
American Indian or Alaskan Native	764	0.809	2.049
Black or African American	499	0.839	2.356
Native Hawaiian or Other Pacific Islander	52	0.848	1.924
Multiple Indication	2756	0.818	2.094
White	17455	0.812	2.082
Special Ed.	2827	0.784	2.152
FRL	16831	0.815	2.089

**Table E.16. Coefficient Alpha and SEM by Subgroup in Total Combined on Stage IV**

Group	N	Coefficient Alpha	SEM
Male	6891	0.922	9.480
Female	4988	0.926	9.732
Hispanic	9958	0.920	9.505
Asian	288	0.936	9.731
American Indian or Alaskan Native	596	0.898	9.139
Black or African American	352	0.940	10.621
Native Hawaiian or Other Pacific Islander	40	0.902	9.472
Multiple Indication	1287	0.921	9.548
White	8909	0.921	9.530
Special Ed.	1372	0.870	9.311
FRL	8474	0.924	9.609

**Table E.17. Coefficient Alpha and SEM by Subgroup in Listening on Stage IV**

Group	N	Coefficient Alpha	SEM
Male	6891	0.683	1.662
Female	4988	0.679	1.669
Hispanic	9958	0.675	1.666
Asian	288	0.722	1.623
American Indian or Alaskan Native	596	0.644	1.659
Black or African American	352	0.700	1.681
Native Hawaiian or Other Pacific Islander	40	0.684	1.589
Multiple Indication	1287	0.679	1.665
White	8909	0.677	1.667
Special Ed.	1372	0.607	1.701
FRL	8474	0.680	1.667

**Table E.18. Coefficient Alpha and SEM by Subgroup in Speaking on Stage IV**

Group	N	Coefficient Alpha	SEM
Male	6891	0.876	2.374
Female	4988	0.893	2.432
Hispanic	9958	0.876	2.384
Asian	288	0.882	2.518
American Indian or Alaskan Native	596	0.824	2.312
Black or African American	352	0.935	2.511
Native Hawaiian or Other Pacific Islander	40	0.748	2.802
Multiple Indication	1287	0.869	2.420
White	8909	0.878	2.389
Special Ed.	1372	0.792	2.388
FRL	8474	0.888	2.390

**Table E.19. Coefficient Alpha and SEM by Subgroup in Reading on Stage IV**

Group	N	Coefficient Alpha	SEM
Male	6891	0.842	2.308
Female	4988	0.841	2.294
Hispanic	9958	0.836	2.306
Asian	288	0.880	2.247
American Indian or Alaskan Native	596	0.803	2.296
Black or African American	352	0.852	2.288
Native Hawaiian or Other Pacific Islander	40	0.842	2.307
Multiple Indication	1287	0.839	2.309
White	8909	0.837	2.306
Special Ed.	1372	0.759	2.352
FRL	8474	0.840	2.307

**Table E.20. Coefficient Alpha and SEM by Subgroup in Writing on Stage IV**

Group	N	Coefficient Alpha	SEM
Male	6891	0.805	2.253
Female	4988	0.809	2.294
Hispanic	9958	0.800	2.253
Asian	288	0.825	2.350
American Indian or Alaskan Native	596	0.772	2.241
Black or African American	352	0.838	2.393
Native Hawaiian or Other Pacific Islander	40	0.818	2.092
Multiple Indication	1287	0.810	2.291
White	8909	0.801	2.259
Special Ed.	1372	0.763	2.267
FRL	8474	0.809	2.265

**Table E.21. Coefficient Alpha and SEM by Subgroup in Total Combined on Stage V**

Group	N	Coefficient Alpha	SEM
Male	4308	0.919	9.086
Female	3351	0.922	9.031
Hispanic	5760	0.918	9.069
Asian	316	0.918	8.541
American Indian or Alaskan Native	299	0.837	8.490
Black or African American	556	0.928	9.271
Native Hawaiian or Other Pacific Islander	28	0.890	9.203
Multiple Indication	676	0.919	8.987
White	5498	0.919	9.082
Special Ed.	417	0.865	8.756
FRL	4657	0.921	9.122

**Table E.22. Coefficient Alpha and SEM by Subgroup in Listening on Stage V**

Group	N	Coefficient Alpha	SEM
Male	4308	0.696	1.661
Female	3351	0.681	1.685
Hispanic	5760	0.684	1.676
Asian	316	0.709	1.630
American Indian or Alaskan Native	299	0.524	1.651
Black or African American	556	0.686	1.682
Native Hawaiian or Other Pacific Islander	28	0.480	1.674
Multiple Indication	676	0.671	1.675
White	5498	0.691	1.673
Special Ed.	417	0.646	1.671
FRL	4657	0.686	1.671

**Table E.23. Coefficient Alpha and SEM by Subgroup in Speaking on Stage V**

Group	N	Coefficient Alpha	SEM
Male	4308	0.892	1.999
Female	3351	0.883	2.027
Hispanic	5760	0.889	2.019
Asian	316	0.831	1.946
American Indian or Alaskan Native	299	0.767	1.859
Black or African American	556	0.902	2.019
Native Hawaiian or Other Pacific Islander	28	0.917	1.931
Multiple Indication	676	0.855	2.070
White	5498	0.891	2.015
Special Ed.	417	0.816	1.919
FRL	4657	0.894	2.023

**Table E.24. Coefficient Alpha and SEM by Subgroup in Reading on Stage V**

Group	N	Coefficient Alpha	SEM
Male	4308	0.806	2.338
Female	3351	0.807	2.326
Hispanic	5760	0.806	2.335
Asian	316	0.809	2.249
American Indian or Alaskan Native	299	0.712	2.315
Black or African American	556	0.802	2.342
Native Hawaiian or Other Pacific Islander	28	0.744	2.287
Multiple Indication	676	0.821	2.325
White	5498	0.805	2.335
Special Ed.	417	0.747	2.335
FRL	4657	0.804	2.337

**Table E.25. Coefficient Alpha and SEM by Subgroup in Reading on Stage V**

Group	N	Coefficient Alpha	SEM
Male	4308	0.771	2.341
Female	3351	0.781	2.316
Hispanic	5760	0.773	2.301
Asian	316	0.772	2.281
American Indian or Alaskan Native	299	0.678	2.270
Black or African American	556	0.787	2.454
Native Hawaiian or Other Pacific Islander	28	0.730	2.300
Multiple Indication	676	0.775	2.354
White	5498	0.774	2.310
Special Ed.	417	0.665	2.340
FRL	4657	0.776	2.329

Table E.26 through table E.38 present interrater reliability statistics for Spring 2017 AZELLA Reassessment. The Kappa coefficient and intraclass correlation are shown by stage and domain in tables below.

**Table E.26. Interrater Reliability Statistics for Items in Writing on Stage I**

Item	Item Type	Max	Kappa	Intraclass Correlation
33	SA2	2	0.84	0.95
34	SA2	2	0.60	0.76
35	SA2	2	0.71	0.89
36	SA2	2	0.79	0.94
37	SA2	2	0.74	0.91
38	SA1	1	0.93	0.97
39	SA1	1	0.95	0.97
40	SA3	3	0.69	0.91
41	SA3	3	0.69	0.93

NOTE: SA1=1 Point Short Answer Item, SA2=2 Point Short Answer Item, SA3=3 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table E.27. Interrater Reliability Statistics for Items in Speaking on Stage I**

Item	Item Type	Max	Kappa	Intraclass Correlation
42	SA1	1	0.23	0.34
43	SA1	1	0.30	0.41
44	SA1	1	0.73	0.84
45	SA1	1	0.67	0.80
46	SA2	2	0.31	0.64
47	SA2	2	0.30	0.66
48	SA2	2	0.42	0.77

NOTE: SA1=1 Point Short Answer Item, SA2=2 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table E.28. Interrater Reliability Statistics for Items in Reading on Stage II**

Item	Item Type	Max	Kappa	Intraclass Correlation
50	SA1	1	0.50	0.66
51	SA1	1	0.39	0.55
52	SA3	3	0.44	0.83

NOTE: SA1=1 Point Short Answer Item, SA3=3 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table E.29. Interrater Reliability Statistics for Items in Writing on Stage II**

Item	Item Type	Max	Kappa	Intraclass Correlation
48	ER	3	0.49	0.88
49	ER	3	0.51	0.87

NOTE: ER=Extended Response Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table E.30. Interrater Reliability Statistics for Items in Speaking on Stage II**

Item	Item Type	Max	Kappa	Intraclass Correlation
53	SA4	4	0.25	0.79
54	SA4	4	0.21	0.73
55	SA4	4	0.37	0.71
56	SA4	4	0.37	0.83
57	SA4	4	0.31	0.79
58	SA4	4	0.27	0.74
59	SA4	4	0.37	0.79

NOTE: SA4=4 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table E.31. Interrater Reliability Statistics for Items in Reading on Stage III**

Item	Item Type	Max	Kappa	Intraclass Correlation
56	SA1	1	0.16	0.26
57	SA1	1	0.48	0.65
58	SA1	1	0.45	0.62

NOTE: SA1=1 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table E.32. Interrater Reliability Statistics for Items in Writing on Stage III**

Item	Item Type	Max	Kappa	Intraclass Correlation
54	ER	5	0.46	0.87
55	ER	5	0.47	0.87

NOTE: ER=Extended Response Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table E.33. Interrater Reliability Statistics for Items in Speaking on Stage III**

Item	Item Type	Max	Kappa	Intraclass Correlation
59	SA4	4	0.42	0.84
60	SA4	4	0.06	0.36
61	SA4	4	0.35	0.80
62	SA4	4	0.31	0.80
63	SA4	4	0.43	0.87
64	SA4	4	0.45	0.83
65	SA4	4	0.40	0.86

NOTE: SA4=4 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table E.34. Interrater Reliability Statistics for Items in Reading on Stage IV**

Item	Item Type	Max	Kappa	Intraclass Correlation
61	SA1	1	0.38	0.55
62	SA1	1	0.34	0.51

NOTE: SA1=1 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table E.35. Interrater Reliability Statistics for Items in Writing on Stage IV**

Item	Item Type	Max	Kappa	Intraclass Correlation
59	ER	5	0.47	0.88
60	ER	5	0.48	0.90

NOTE: ER=Extended Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table E.36. Interrater Reliability Statistics for Items in Speaking on Stage IV**

Item	Item Type	Max	Kappa	Intraclass Correlation
63	SA4	4	0.26	0.80
64	SA4	4	0.31	0.83
65	SA4	4	0.22	0.79
66	SA4	4	0.41	0.87
67	SA4	4	0.33	0.89
68	SA4	4	0.21	0.74
69	SA4	4	0.36	0.88

NOTE: SA4=4 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table E.37. Interrater Reliability Statistics for Items in Writing on Stage V**

Item	Item Type	Max	Kappa	Intraclass Correlation
61	ER	5	0.49	0.90
62	ER	5	0.46	0.89

NOTE: ER=Extended Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table E.38. Interrater Reliability Statistics for Items in Speaking on Stage V**

Item	Item Type	Max	Kappa	Intraclass Correlation
63	SA4	4	0.30	0.79
64	SA4	4	0.36	0.86
65	SA4	4	0.32	0.81
66	SA4	4	0.28	0.76
67	SA4	4	0.25	0.80
68	SA4	4	0.42	0.87
69	SA4	4	0.30	0.84

NOTE: SA4=4 Point Short Answer Item; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

## Appendix F. AZELLA REASSESSMENT DIF STATISTICS

This appendix presents DIF statistics for Spring 2017 AZELLA Reassessment. Tables below shows MH and SMD DIF statistics by stage and domain.

**Table F.1. DIF Statistics based on EL Students for Items in Reading on Stage I**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
15	MC	5946	6604	0.64	0.08	0.01	A	10765	1801	17.42	-0.60	-0.10	A	231	12335	1.25	0.38	0.07	A	839	11727	0.00	0.00	0.00	A
16	MC	5946	6604	3.33	-0.22	-0.03	A	10765	1801	0.00	0.00	0.00	A	231	12335	0.09	0.12	0.02	A	839	11727	0.13	0.08	0.01	A
17	MC	5946	6604	1.07	-0.12	-0.02	A	10765	1801	3.15	-0.31	-0.04	A	231	12335	1.81	-0.55	-0.08	A	839	11727	0.03	-0.04	-0.01	A
18	MC	5946	6604	0.02	0.02	0.00	A	10765	1801	4.38	-0.38	-0.05	A	231	12335	0.53	-0.30	-0.05	A	839	11727	6.12	0.56	0.09	A
19	MC	5946	6604	1.41	0.11	0.02	A	10765	1801	0.47	0.09	0.01	A	231	12335	1.28	-0.37	-0.07	A	839	11727	0.81	-0.16	-0.03	A
20	MC	5946	6604	1.79	-0.13	-0.02	A	10765	1801	9.99	-0.45	-0.07	A	231	12335	7.40	-0.93	-0.17	A	839	11727	0.64	-0.15	-0.03	A
21	MC	5946	6604	8.75	0.29	0.04	A	10765	1801	8.06	-0.41	-0.06	A	231	12335	0.37	0.24	0.04	A	839	11727	1.28	0.22	0.04	A
22	MC	5946	6604	18.44	-0.42	-0.07	A	10765	1801	0.12	-0.05	-0.01	A	231	12335	3.14	0.64	0.11	A	839	11727	0.13	0.07	0.01	A
23	MC	5946	6604	30.76	-0.54	-0.08	A	10765	1801	0.00	0.01	0.00	A	231	12335	1.64	0.47	0.08	A	839	11727	0.01	0.02	0.00	A
24	MC	5946	6604	53.08	-0.66	-0.12	A	10765	1801	13.37	-0.48	-0.08	A	231	12335	8.85	0.97	0.19	A	839	11727	0.04	0.03	0.01	A
25	MC	5946	6604	44.08	0.62	0.11	A	10765	1801	1.46	-0.16	-0.03	A	231	12335	0.00	0.02	0.00	A	839	11727	0.00	0.00	0.00	A
26	MC	5946	6604	1.80	-0.12	-0.02	A	10765	1801	0.28	-0.07	-0.01	A	231	12335	1.16	-0.35	-0.07	A	839	11727	9.64	0.55	0.11	A
27	MC	5946	6604	8.85	0.27	0.05	A	10765	1801	5.40	-0.30	-0.06	A	231	12335	0.79	0.30	0.06	A	839	11727	3.83	-0.35	-0.07	A
28	MC	5946	6604	24.93	0.45	0.08	A	10765	1801	0.15	-0.05	-0.01	A	231	12335	0.34	-0.19	-0.04	A	839	11727	11.82	-0.60	-0.12	A
29	MC	5946	6604	19.41	-0.43	-0.07	A	10765	1801	2.16	0.21	0.03	A	231	12335	5.68	0.88	0.15	A	839	11727	0.00	0.00	0.00	A
30	MC	5946	6604	70.81	-0.80	-0.14	A	10765	1801	5.77	0.33	0.06	A	231	12335	4.76	0.76	0.14	A	839	11727	0.87	0.17	0.03	A
31	MC	5946	6604	4.50	-0.21	-0.03	A	10765	1801	0.01	0.01	0.00	A	231	12335	0.31	0.20	0.03	A	839	11727	1.66	-0.24	-0.04	A
32	MC	5946	6604	11.34	-0.36	-0.05	A	10765	1801	5.92	0.38	0.06	A	231	12335	0.03	0.07	0.01	A	839	11727	10.37	-0.63	-0.11	A

NOTE: MC= Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.2. DIF Statistics based on FRL Students for Items in Reading on Stage I**

Item Number	Item Type	Focal Group: FRL (EL)		Reference Group: Non-FRL (EL)			Flag
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	
15	MC	8568	3931	2.99	-0.18	-0.03	A
16	MC	8568	3931	0.19	-0.06	-0.01	A
17	MC	8568	3931	0.10	-0.04	-0.01	A
18	MC	8568	3931	0.07	0.03	0.01	A
19	MC	8568	3931	10.15	-0.32	-0.06	A
20	MC	8568	3931	7.99	-0.29	-0.05	A
21	MC	8568	3931	2.10	-0.15	-0.02	A
22	MC	8568	3931	5.79	0.25	0.04	A
23	MC	8568	3931	0.02	-0.02	0.00	A
24	MC	8568	3931	1.70	-0.13	-0.02	A
25	MC	8568	3931	3.33	-0.18	-0.03	A
26	MC	8568	3931	7.25	-0.26	-0.05	A
27	MC	8568	3931	1.47	-0.12	-0.02	A
28	MC	8568	3931	1.23	0.11	0.02	A
29	MC	8568	3931	0.89	0.10	0.02	A
30	MC	8568	3931	0.16	-0.04	-0.01	A
31	MC	8568	3931	0.32	-0.06	-0.01	A
32	MC	8568	3931	6.13	-0.29	-0.04	A

NOTE: MC= Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.3. DIF Statistics based on EL Students for Items in Writing on Stage I**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
33	SA2	5946	6604	15.37		0.06	A	10765	1801	5.91	-0.06	A	231	12335	0.67		0.04	A	839	11727	0.97		-0.01	A	
34	SA2	5946	6604	39.69		0.11	A	10765	1801	29.31	-0.09	A	231	12335	1.78		0.08	A	839	11727	6.73		-0.03	A	
35	SA2	5946	6604	4.54		0.03	A	10765	1801	0.94	-0.02	A	231	12335	12.30		0.16	A	839	11727	0.40		-0.01	A	
36	SA2	5946	6604	6.03		0.03	A	10765	1801	16.58	-0.07	A	231	12335	1.13		0.03	A	839	11727	9.90		-0.02	A	
37	SA2	5946	6604	14.67		0.05	A	10765	1801	3.13	-0.04	A	231	12335	5.93		0.10	A	839	11727	0.89		0.02	A	
38	SA1	5946	6604	0.63	0.07	0.01	A	10765	1801	5.94	0.32	0.06	A	231	12335	3.21	0.60	0.11	A	839	11727	1.23	-0.20	-0.04	A
39	SA1	5946	6604	0.11	0.03	0.00	A	10765	1801	0.56	0.10	0.01	A	231	12335	0.14	0.12	0.02	A	839	11727	2.93	-0.31	-0.06	A
40	SA3	5946	6604	19.01		0.05	A	10765	1801	2.53	-0.02	A	231	12335	3.93		0.00	A	839	11727	0.94		0.00	A	
41	SA3	5946	6604	8.65		0.02	A	10765	1801	8.36	-0.05	A	231	12335	6.12		0.10	A	839	11727	3.51		0.01	A	

NOTE: SA1=1 Point Short Answer Item, SA2=2 Point Short Answer Item, SA3=3 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group, Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.4. DIF Statistics based on FRL Students for Items in Writing on Stage I**

Item Number	Item Type	Focal Group: FRL (EL) Reference Group: Non-FRL (EL)					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
33	SA2	8568	3931	6.07		-0.02	A
34	SA2	8568	3931	41.46		-0.11	A
35	SA2	8568	3931	13.25		-0.03	A
36	SA2	8568	3931	12.15		-0.04	A
37	SA2	8568	3931	40.31		-0.06	A
38	SA1	8568	3931	1.54	0.12	0.02	A
39	SA1	8568	3931	0.43	-0.06	-0.01	A
40	SA3	8568	3931	12.89		-0.03	A
41	SA3	8568	3931	17.85		-0.03	A

NOTE: SA1=1 Point Short Answer Item, SA2=2 Point Short Answer Item, SA3=3 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group, Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.5. DIF Statistics based on EL Students for Items in Listening on Stage I**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
1	MC	5946	6604	0.00	-0.01	0.00	A	10765	1801	2.60	-0.26	-0.04	A	231	12335	1.01	-0.38	-0.07	A	839	11727	0.79	0.19	0.03	A
2	MC	5946	6604	16.80	-0.44	-0.07	A	10765	1801	1.34	-0.18	-0.03	A	231	12335	0.28	-0.20	-0.03	A	839	11727	0.02	0.03	0.01	A
3	MC	5946	6604	4.55	-0.21	-0.04	A	10765	1801	11.24	-0.48	-0.08	A	231	12335	0.00	0.02	0.00	A	839	11727	0.69	0.16	0.03	A
4	MC	5946	6604	10.11	-0.37	-0.05	A	10765	1801	2.53	0.26	0.04	A	231	12335	3.16	0.80	0.11	A	839	11727	15.69	0.94	0.15	A
5	MC	5946	6604	5.10	0.21	0.04	A	10765	1801	15.72	0.53	0.10	A	231	12335	0.20	-0.16	-0.03	A	839	11727	1.69	-0.24	-0.05	A
6	MC	5946	6604	2.26	0.15	0.02	A	10765	1801	4.76	0.30	0.05	A	231	12335	0.44	0.24	0.04	A	839	11727	1.05	0.20	0.03	A
7	MC	5946	6604	0.11	-0.03	-0.01	A	10765	1801	20.48	0.63	0.11	A	231	12335	0.71	0.32	0.05	A	839	11727	0.20	0.09	0.02	A
8	MC	5946	6604	36.87	0.65	0.09	A	10765	1801	11.97	0.52	0.08	A	231	12335	0.14	-0.14	-0.02	A	839	11727	6.91	-0.51	-0.09	A
9	MC	5946	6604	4.43	0.24	0.03	A	10765	1801	7.59	0.44	0.07	A	231	12335	1.05	0.42	0.06	A	839	11727	5.87	-0.49	-0.08	A
10	MC	5946	6604	19.09	0.47	0.07	A	10765	1801	3.25	0.28	0.05	A	231	12335	0.01	0.04	0.01	A	839	11727	0.32	0.12	0.02	A
11	MC	5946	6604	19.35	0.49	0.07	A	10765	1801	34.09	0.90	0.14	A	231	12335	0.26	-0.20	-0.03	A	839	11727	1.94	-0.29	-0.05	A
12	MC	5946	6604	1.28	0.11	0.02	A	10765	1801	6.02	0.35	0.06	A	231	12335	0.28	0.19	0.03	A	839	11727	0.85	-0.17	-0.03	A
13	MC	5946	6604	3.64	0.18	0.03	A	10765	1801	0.48	0.10	0.02	A	231	12335	12.34	-1.25	-0.21	B<	839	11727	2.64	-0.30	-0.05	A
14	MC	5946	6604	7.88	0.26	0.05	A	10765	1801	1.61	-0.17	-0.04	A	231	12335	2.19	-0.49	-0.09	A	839	11727	0.01	-0.01	0.00	A

NOTE: MC= Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.6. DIF Statistics based on FRL Students for Items in Listening on Stage I**

Item Number	Item Type	Focal Group: FRL (EL) Reference Group: Non-FRL (EL)					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
1	MC	8568	3931	3.98	0.23	0.04	A
2	MC	8568	3931	2.49	0.18	0.03	A
3	MC	8568	3931	5.61	0.24	0.04	A
4	MC	8568	3931	5.18	0.28	0.04	A
5	MC	8568	3931	2.68	0.17	0.03	A
6	MC	8568	3931	0.01	-0.01	0.00	A
7	MC	8568	3931	3.08	0.19	0.03	A
8	MC	8568	3931	0.32	0.06	0.01	A
9	MC	8568	3931	0.06	0.03	0.00	A
10	MC	8568	3931	2.35	0.18	0.03	A
11	MC	8568	3931	0.07	-0.03	-0.01	A
12	MC	8568	3931	1.43	-0.13	-0.02	A
13	MC	8568	3931	6.96	-0.28	-0.05	A
14	MC	8568	3931	2.99	-0.18	-0.03	A

NOTE: MC=Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.7. DIF Statistics based on EL Students for Items in Speaking on Stage I**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
42	SA1	5946	6604	8.82	-0.30	-0.05	A	10765	1801	16.61	0.57	0.10	A	231	12335	0.14	0.14	0.02	A	839	11727	0.58	0.15	0.03	A
43	SA1	5946	6604	0.03	-0.03	0.00	A	10765	1801	54.18	1.60	0.18	C>	231	12335	0.29	0.38	0.04	A	839	11727	3.00	-0.55	-0.07	A
44	SA1	5946	6604	30.56	-0.52	-0.09	A	10765	1801	16.69	-0.58	-0.10	A	231	12335	3.58	-0.64	-0.12	A	839	11727	6.41	0.47	0.09	A
45	SA1	5946	6604	39.66	-0.67	-0.11	A	10765	1801	0.74	-0.13	-0.01	A	231	12335	2.67	-0.71	-0.10	A	839	11727	0.46	0.15	0.02	A
46	SA2	5946	6604	3.51		-0.02	A	10765	1801	18.93		0.10	A	231	12335	1.19		0.05	A	839	11727	1.86		0.02	A
47	SA2	5946	6604	3.21		0.01	A	10765	1801	40.57		0.15	A	231	12335	1.07		-0.05	A	839	11727	18.98		-0.08	A
48	SA2	5946	6604	6.76		0.04	A	10765	1801	22.57		0.11	A	231	12335	2.25		-0.08	A	839	11727	1.87		-0.03	A
49	SA4	5946	6604	2.33		0.00	A	10765	1801	56.79		0.16	A	231	12335	0.40		-0.02	A	839	11727	32.73		-0.11	A

NOTE: SA1=1 Point Short Answer Item, SA2=2 Point Short Answer Item, SA4=4 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.8. DIF Statistics based on FRL Students for Items in Speaking on Stage I**

Item Number	Item Type	Focal Group: FRL (EL and FEP) Reference Group: Non-FRL (EL and FEP)					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
42	SA1	8568	3931	8.96	0.32	0.06	A
43	SA1	8568	3931	11.51	0.65	0.06	A
44	SA1	8568	3931	0.07	-0.03	0.00	A
45	SA1	8568	3931	0.31	-0.06	-0.01	A
46	SA2	8568	3931	8.28		0.05	A
47	SA2	8568	3931	3.27		0.02	A
48	SA2	8568	3931	25.64		0.07	A
49	SA4	8568	3931	30.98		0.08	A

NOTE: SA1=1 Point Short Answer Item, SA2=2 Point Short Answer Item, SA4=4 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.9. DIF Statistics based on EL Students for Items in Reading on Stage II**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
15	MC	8395	9716	5.01	0.18	0.03	A	15681	2459	27.99	0.62	0.11	A	445	17695	1.96	-0.35	-0.06	A	1815	16325	0.93	-0.12	-0.02	A
16	MC	8395	9716	0.77	-0.07	-0.01	A	15681	2459	10.95	-0.42	-0.07	A	445	17695	0.15	0.10	0.02	A	1815	16325	1.12	-0.14	-0.03	A
17	MC	8395	9716	1.74	0.10	0.02	A	15681	2459	19.22	0.48	0.09	A	445	17695	0.37	0.15	0.03	A	1815	16325	13.33	-0.46	-0.09	A
18	MC	8395	9716	0.11	-0.03	-0.01	A	15681	2459	1.29	-0.14	-0.02	A	445	17695	2.16	0.42	0.07	A	1815	16325	0.95	0.13	0.02	A
19	MC	8395	9716	0.12	-0.03	-0.01	A	15681	2459	2.55	-0.21	-0.03	A	445	17695	0.63	0.22	0.03	A	1815	16325	0.34	0.08	0.01	A
20	MC	8395	9716	9.59	-0.24	-0.04	A	15681	2459	15.38	-0.45	-0.08	A	445	17695	4.65	0.54	0.10	A	1815	16325	14.98	0.49	0.09	A
21	MC	8395	9716	0.59	-0.06	-0.01	A	15681	2459	0.26	-0.06	-0.01	A	445	17695	1.98	0.35	0.06	A	1815	16325	3.24	0.23	0.04	A
22	MC	8395	9716	5.96	0.18	0.04	A	15681	2459	1.66	0.14	0.03	A	445	17695	5.79	0.60	0.11	A	1815	16325	3.68	0.24	0.05	A
23	MC	8395	9716	0.69	-0.07	-0.01	A	15681	2459	1.06	0.12	0.02	A	445	17695	0.17	0.10	0.02	A	1815	16325	4.13	0.26	0.05	A
24	MC	8395	9716	0.92	0.08	0.01	A	15681	2459	6.08	-0.29	-0.05	A	445	17695	5.74	0.61	0.10	A	1815	16325	0.18	-0.06	-0.01	A
25	MC	8395	9716	4.12	0.15	0.03	A	15681	2459	4.26	0.22	0.04	A	445	17695	0.97	-0.23	-0.05	A	1815	16325	0.39	-0.08	-0.01	A
26	MC	8395	9716	2.83	0.13	0.02	A	15681	2459	0.37	-0.07	-0.01	A	445	17695	0.18	0.11	0.02	A	1815	16325	1.00	-0.13	-0.02	A
27	MC	8395	9716	0.47	0.05	0.01	A	15681	2459	4.29	-0.24	-0.04	A	445	17695	7.27	0.68	0.12	A	1815	16325	1.62	0.16	0.03	A
28	MC	8395	9716	19.69	0.35	0.06	A	15681	2459	1.37	-0.14	-0.02	A	445	17695	0.08	-0.07	-0.01	A	1815	16325	0.44	0.09	0.01	A
29	MC	8395	9716	0.81	0.07	0.01	A	15681	2459	0.12	-0.04	-0.01	A	445	17695	7.47	-0.65	-0.13	A	1815	16325	0.02	0.02	0.00	A
30	MC	8395	9716	8.58	0.23	0.04	A	15681	2459	0.19	0.05	0.01	A	445	17695	0.36	0.15	0.03	A	1815	16325	0.12	-0.04	-0.01	A
31	MC	8395	9716	26.21	0.41	0.07	A	15681	2459	2.21	0.17	0.03	A	445	17695	1.41	-0.31	-0.05	A	1815	16325	10.89	-0.43	-0.07	A
32	MC	8395	9716	3.75	0.15	0.03	A	15681	2459	0.00	0.00	0.00	A	445	17695	4.86	-0.56	-0.10	A	1815	16325	2.31	0.19	0.04	A
33	MC	8395	9716	0.84	-0.07	-0.01	A	15681	2459	0.89	-0.10	-0.02	A	445	17695	1.71	-0.31	-0.06	A	1815	16325	1.21	0.13	0.03	A
34	MC	8395	9716	2.08	0.11	0.02	A	15681	2459	1.53	-0.14	-0.03	A	445	17695	0.15	0.10	0.02	A	1815	16325	0.84	-0.11	-0.02	A
50	SA1	8395	9716	5.65	-0.18	-0.03	A	15681	2459	1.18	0.12	0.02	A	445	17695	1.09	0.26	0.05	A	1815	16325	7.60	0.34	0.07	A
51	SA1	8395	9716	0.87	-0.07	-0.01	A	15681	2459	23.20	0.53	0.09	A	445	17695	0.11	0.08	0.02	A	1815	16325	6.03	-0.30	-0.06	A
52	SA3	8395	9716	216.83	-0.18	B<		15681	2459	38.38	-0.09	-0.09	A	445	17695	5.27	-0.01	-0.01	A	1815	16325	5.05	0.02	0.02	A

NOTE: MC=Multiple-choice Items, SA1=1 Point Short Answer Item, SA3=3 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group, Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.10. DIF Statistics based on FRL Students for Items in Reading on Stage II**

Item Number	Item Type	Focal Group: FRL (EL)		Reference Group: Non-FRL (EL)			Flag
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	
15	MC	13052	5020	0.10	-0.03	0.00	A
16	MC	13052	5020	0.51	-0.07	-0.01	A
17	MC	13052	5020	1.58	-0.11	-0.02	A
18	MC	13052	5020	0.10	-0.03	-0.01	A
19	MC	13052	5020	0.00	0.00	0.00	A
20	MC	13052	5020	0.04	-0.02	0.00	A
21	MC	13052	5020	6.32	-0.22	-0.04	A
22	MC	13052	5020	0.44	-0.06	-0.01	A
23	MC	13052	5020	0.48	-0.06	-0.01	A
24	MC	13052	5020	0.01	-0.01	0.00	A
25	MC	13052	5020	0.01	0.01	0.00	A
26	MC	13052	5020	0.33	0.05	0.01	A
27	MC	13052	5020	2.02	0.12	0.02	A
28	MC	13052	5020	0.00	0.01	0.00	A
29	MC	13052	5020	2.77	-0.14	-0.03	A
30	MC	13052	5020	0.04	-0.02	0.00	A
31	MC	13052	5020	0.06	-0.02	0.00	A
32	MC	13052	5020	0.74	0.07	0.01	A
33	MC	13052	5020	1.96	-0.11	-0.02	A
34	MC	13052	5020	2.18	-0.13	-0.02	A
50	SA1	13052	5020	0.18	-0.04	-0.01	A
51	SA1	13052	5020	1.15	0.09	0.02	A
52	SA3	13052	5020	5.79		-0.03	A

NOTE: MC=Multiple-choice Items, SA1=1 Point Short Answer Item, SA3=3 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.11. DIF Statistics based on EL Students for Items in Writing on Stage II**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
35	MC	8395	9716	0.12	-0.03	-0.01	A	15681	2459	13.25	-0.52	-0.07	A	445	17695	1.04	0.31	0.04	A	1815	16325	0.36	0.09	0.01	A
36	MC	8395	9716	0.69	0.06	0.01	A	15681	2459	1.48	-0.14	-0.03	A	445	17695	4.97	-0.53	-0.10	A	1815	16325	1.24	-0.14	-0.03	A
37	MC	8395	9716	38.44	0.46	0.09	A	15681	2459	15.06	-0.42	-0.08	A	445	17695	0.52	-0.18	-0.03	A	1815	16325	7.24	0.34	0.06	A
38	MC	8395	9716	3.53	-0.14	-0.03	A	15681	2459	0.06	-0.03	-0.01	A	445	17695	0.97	-0.23	-0.05	A	1815	16325	0.20	0.06	0.01	A
39	MC	8395	9716	1.51	0.09	0.01	A	15681	2459	0.90	-0.11	-0.03	A	445	17695	0.05	0.06	0.01	A	1815	16325	8.58	-0.35	-0.07	A
40	MC	8395	9716	11.67	0.32	0.04	A	15681	2459	0.14	-0.05	-0.01	A	445	17695	0.38	0.17	0.03	A	1815	16325	4.01	-0.28	-0.05	A
41	MC	8395	9716	0.02	0.01	0.00	A	15681	2459	28.39	-0.62	-0.10	A	445	17695	0.10	0.08	0.01	A	1815	16325	25.73	0.68	0.11	A
42	MC	8395	9716	3.09	-0.13	-0.03	A	15681	2459	11.62	0.37	0.07	A	445	17695	0.29	-0.13	-0.02	A	1815	16325	1.55	-0.15	-0.03	A
43	MC	8395	9716	3.56	0.15	0.02	A	15681	2459	1.60	-0.14	-0.03	A	445	17695	0.00	0.01	0.00	A	1815	16325	0.20	-0.06	-0.01	A
44	MC	8395	9716	6.28	-0.20	-0.03	A	15681	2459	1.98	-0.16	-0.03	A	445	17695	0.37	-0.15	-0.03	A	1815	16325	0.01	-0.01	0.00	A
45	MC	8395	9716	0.99	0.07	0.01	A	15681	2459	2.47	-0.17	-0.03	A	445	17695	0.89	-0.22	-0.04	A	1815	16325	0.00	0.00	0.00	A
46	MC	8395	9716	1.74	-0.10	-0.02	A	15681	2459	0.13	0.04	0.01	A	445	17695	0.17	0.10	0.02	A	1815	16325	3.97	-0.25	-0.05	A
47	MC	8395	9716	14.67	-0.28	-0.05	A	15681	2459	25.69	-0.55	-0.10	A	445	17695	5.04	0.53	0.10	A	1815	16325	0.03	-0.02	0.00	A
48	ER	8395	9716	107.30		0.11	A	15681	2459	20.05		0.01	A	445	17695	3.57		0.06	A	1815	16325	38.21		-0.11	A
49	ER	8395	9716	46.73		0.07	A	15681	2459	23.81		0.05	A	445	17695	0.97		-0.01	A	1815	16325	15.19		-0.07	A

NOTE: MC=Multiple-choice Items, ER=Extended Response Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group, Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.12. DIF Statistics based on FRL Students for Items in Writing on Stage II**

Item Number	Item Type	Focal Group: FRL (EL) Reference Group: Non-FRL (EL)					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
35	MC	13052	5020	6.34	-0.27	-0.04	A
36	MC	13052	5020	0.61	-0.07	-0.01	A
37	MC	13052	5020	10.24	-0.27	-0.05	A
38	MC	13052	5020	0.02	-0.01	0.00	A
39	MC	13052	5020	5.30	-0.20	-0.04	A
40	MC	13052	5020	0.05	0.02	0.00	A
41	MC	13052	5020	1.10	-0.09	-0.02	A
42	MC	13052	5020	1.20	0.09	0.02	A
43	MC	13052	5020	6.09	0.21	0.04	A
44	MC	13052	5020	0.01	-0.01	0.00	A
45	MC	13052	5020	3.19	-0.15	-0.03	A
46	MC	13052	5020	0.01	0.01	0.00	A
47	MC	13052	5020	0.06	-0.02	0.00	A
48	ER	13052	5020	20.58		-0.05	A
49	ER	13052	5020	3.55		-0.01	A

NOTE: MC= Multiple-choice Item, ER=Extended Response Item , NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.13. DIF Statistics based on EL Students for Items in Listening on Stage II**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
1	MC	8395	9716	0.03	0.01	0.00	A	15681	2459	9.57	-0.34	-0.06	A	445	17695	4.72	-0.51	-0.10	A	1815	16325	1.34	0.14	0.03	A
2	MC	8395	9716	0.08	0.02	0.00	A	15681	2459	0.72	-0.09	-0.02	A	445	17695	3.41	-0.44	-0.08	A	1815	16325	2.47	-0.19	-0.04	A
3	MC	8395	9716	1.69	0.10	0.02	A	15681	2459	1.39	-0.13	-0.03	A	445	17695	7.30	-0.65	-0.12	A	1815	16325	1.03	-0.13	-0.02	A
4	MC	8395	9716	8.86	0.22	0.04	A	15681	2459	4.93	-0.24	-0.04	A	445	17695	0.84	-0.22	-0.04	A	1815	16325	0.02	-0.02	0.00	A
5	MC	8395	9716	1.92	-0.11	-0.02	A	15681	2459	17.04	-0.45	-0.08	A	445	17695	2.91	-0.41	-0.08	A	1815	16325	1.13	0.14	0.02	A
6	MC	8395	9716	0.93	-0.07	-0.01	A	15681	2459	1.17	-0.12	-0.02	A	445	17695	0.01	-0.02	0.00	A	1815	16325	3.72	-0.25	-0.05	A
7	MC	8395	9716	18.75	0.38	0.06	A	15681	2459	21.74	0.57	0.10	A	445	17695	13.56	-0.93	-0.17	A	1815	16325	45.65	-0.87	-0.17	A
8	MC	8395	9716	6.55	-0.21	-0.04	A	15681	2459	0.85	-0.11	-0.01	A	445	17695	5.17	-0.56	-0.10	A	1815	16325	13.25	-0.46	-0.09	A
9	MC	8395	9716	13.04	0.30	0.05	A	15681	2459	11.44	0.40	0.07	A	445	17695	0.55	-0.19	-0.03	A	1815	16325	23.27	-0.61	-0.12	A
10	MC	8395	9716	15.34	0.38	0.05	A	15681	2459	51.96	0.95	0.15	A	445	17695	0.27	-0.15	-0.02	A	1815	16325	40.35	-0.90	-0.17	A
11	MC	8395	9716	0.17	-0.03	-0.01	A	15681	2459	18.25	0.52	0.09	A	445	17695	8.87	-0.76	-0.13	A	1815	16325	17.66	-0.54	-0.10	A
12	MC	8395	9716	8.24	-0.24	-0.04	A	15681	2459	3.17	0.21	0.04	A	445	17695	0.00	0.01	0.00	A	1815	16325	6.46	-0.33	-0.06	A
13	MC	8395	9716	37.15	0.50	0.09	A	15681	2459	7.34	-0.33	-0.06	A	445	17695	0.40	-0.16	-0.03	A	1815	16325	24.30	-0.61	-0.12	A
14	MC	8395	9716	0.88	-0.07	-0.01	A	15681	2459	0.05	0.03	0.00	A	445	17695	2.55	0.39	0.07	A	1815	16325	7.03	0.34	0.06	A

NOTE: MC= Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.14. DIF Statistics based on FRL Students for Items in Listening on Stage II**

Item Number	Item Type	Focal Group: FRL (EL) Reference Group: Non-FRL (EL)					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
1	MC	13052	5020	4.56	0.18	0.03	A
2	MC	13052	5020	18.42	0.36	0.07	A
3	MC	13052	5020	6.28	0.21	0.04	A
4	MC	13052	5020	9.80	-0.26	-0.05	A
5	MC	13052	5020	6.05	-0.21	-0.04	A
6	MC	13052	5020	0.25	-0.04	-0.01	A
7	MC	13052	5020	3.33	-0.18	-0.03	A
8	MC	13052	5020	3.21	-0.16	-0.03	A
9	MC	13052	5020	1.38	0.11	0.02	A
10	MC	13052	5020	0.91	0.10	0.02	A
11	MC	13052	5020	12.12	0.33	0.05	A
12	MC	13052	5020	0.47	0.06	0.01	A
13	MC	13052	5020	0.01	0.01	0.00	A
14	MC	13052	5020	7.84	-0.24	-0.04	A

NOTE: MC= Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.15. DIF Statistics based on EL Students for Items in Speaking on Stage II**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MHy <sup>2</sup>	ΔMH	SMD	Flag	NF	NR	MHy <sup>2</sup>	ΔMH	SMD	Flag	NF	NR	MHy <sup>2</sup>	ΔMH	SMD	Flag	NF	NR	MHy <sup>2</sup>	ΔMH	SMD	Flag
53	SA4	8395	9716	86.01		-0.12	A	15681	2459	77.04		0.10	A	445	17695	9.10		0.12	A	1815	16325	42.40		0.15	A
54	SA4	8395	9716	40.61		-0.08	A	15681	2459	66.38		0.12	A	445	17695	15.60		0.17	A	1815	16325	26.60		0.09	A
55	SA4	8395	9716	26.47		0.00	A	15681	2459	67.88		0.00	A	445	17695	9.09		0.01	A	1815	16325	64.30		-0.05	A
56	SA4	8395	9716	47.08		0.03	A	15681	2459	22.07		0.08	A	445	17695	8.46		0.06	A	1815	16325	12.19		0.08	A
57	SA4	8395	9716	6.11		-0.02	A	15681	2459	84.49		0.07	A	445	17695	11.30		0.09	A	1815	16325	17.10		0.00	A
58	SA4	8395	9716	85.56		0.09	A	15681	2459	91.85		0.17	A	445	17695	11.86		0.04	A	1815	16325	21.40		0.02	A
59	SA4	8395	9716	76.43		0.07	A	15681	2459	78.73		0.16	A	445	17695	17.71		0.00	A	1815	16325	18.16		0.07	A
60	SA4	8395	9716	2.23		0.01	A	15681	2459	95.65		0.16	A	445	17695	13.10		0.14	A	1815	16325	155.83		-0.21	B<

NOTE: SA4=4 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MHy<sup>2</sup>=Mantel-Haenszel Chi-Square, ΔMH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group, Item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.16. DIF Statistics based on FRL Students for Items in Speaking on Stage II**

Item Number	Item Type	Focal Group: FRL (EL) Reference Group: Non-FRL (EL)					
		NF	NR	MHy <sup>2</sup>	ΔMH	SMD	Flag
53	SA4	13052	5020	12.69		0.04	A
54	SA4	13052	5020	19.59		0.06	A
55	SA4	13052	5020	11.34		-0.01	A
56	SA4	13052	5020	5.64		0.02	A
57	SA4	13052	5020	13.13		-0.03	A
58	SA4	13052	5020	27.36		0.07	A
59	SA4	13052	5020	38.11		0.09	A
60	SA4	13052	5020	32.72		0.07	A

NOTE: SA4=4 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MHy<sup>2</sup>=Mantel-Haenszel Chi-Square, ΔMH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.17. DIF Statistics based on EL Students for Items in Reading on Stage III**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
15	MC	10247	12535	1.21	-0.08	-0.01	A	19727	3120	2.63	-0.17	-0.04	A	764	22083	0.04	-0.04	-0.01	A	2827	20020	0.06	-0.03	-0.01	A
16	MC	10247	12535	39.65	0.44	0.08	A	19727	3120	6.43	-0.26	-0.05	A	764	22083	0.17	0.08	0.01	A	2827	20020	28.26	-0.55	-0.10	A
17	MC	10247	12535	1.97	0.11	0.02	A	19727	3120	0.61	-0.09	-0.02	A	764	22083	1.52	0.26	0.04	A	2827	20020	0.12	-0.04	-0.01	A
18	MC	10247	12535	4.58	-0.15	-0.03	A	19727	3120	24.26	-0.50	-0.09	A	764	22083	4.47	0.41	0.07	A	2827	20020	16.81	-0.43	-0.08	A
19	MC	10247	12535	11.39	0.27	0.04	A	19727	3120	1.62	0.15	0.02	A	764	22083	0.43	0.15	0.02	A	2827	20020	28.99	-0.59	-0.11	A
20	MC	10247	12535	32.08	0.37	0.07	A	19727	3120	0.00	0.01	0.00	A	764	22083	0.02	0.03	0.01	A	2827	20020	0.11	0.03	0.01	A
21	MC	10247	12535	6.94	0.18	0.03	A	19727	3120	2.37	-0.16	-0.03	A	764	22083	0.49	0.13	0.02	A	2827	20020	0.17	-0.05	-0.01	A
22	MC	10247	12535	36.87	-0.41	-0.08	A	19727	3120	14.37	-0.37	-0.07	A	764	22083	0.03	0.03	0.01	A	2827	20020	0.00	0.01	0.00	A
23	MC	10247	12535	4.88	-0.15	-0.03	A	19727	3120	13.00	-0.35	-0.06	A	764	22083	0.01	-0.02	0.00	A	2827	20020	1.77	-0.14	-0.03	A
24	MC	10247	12535	36.01	0.43	0.07	A	19727	3120	0.09	0.03	0.01	A	764	22083	0.65	0.16	0.03	A	2827	20020	0.01	0.01	0.00	A
25	MC	10247	12535	0.01	0.01	0.00	A	19727	3120	0.33	-0.06	-0.01	A	764	22083	0.05	0.04	0.01	A	2827	20020	1.62	0.13	0.02	A
26	MC	10247	12535	131.53	0.85	0.13	A	19727	3120	0.59	-0.08	-0.02	A	764	22083	0.88	-0.19	-0.03	A	2827	20020	1.87	-0.15	-0.03	A
27	MC	10247	12535	44.61	0.46	0.08	A	19727	3120	2.67	0.16	0.04	A	764	22083	3.72	-0.36	-0.07	A	2827	20020	8.79	-0.32	-0.05	A
28	MC	10247	12535	20.08	0.30	0.06	A	19727	3120	6.56	0.25	0.05	A	764	22083	1.48	-0.22	-0.04	A	2827	20020	3.19	-0.18	-0.03	A
29	MC	10247	12535	1.11	-0.07	-0.01	A	19727	3120	4.39	-0.20	-0.04	A	764	22083	4.09	-0.38	-0.07	A	2827	20020	0.62	-0.08	-0.01	A
30	MC	10247	12535	0.17	0.03	0.01	A	19727	3120	4.18	-0.21	-0.04	A	764	22083	0.31	0.11	0.02	A	2827	20020	5.48	0.25	0.04	A
31	MC	10247	12535	57.22	-0.52	-0.10	A	19727	3120	17.25	-0.42	-0.08	A	764	22083	2.86	0.31	0.06	A	2827	20020	0.71	0.09	0.02	A
32	MC	10247	12535	14.10	-0.26	-0.05	A	19727	3120	31.11	-0.55	-0.10	A	764	22083	0.83	0.17	0.03	A	2827	20020	3.19	0.19	0.03	A
33	MC	10247	12535	0.69	-0.06	-0.01	A	19727	3120	0.22	0.05	0.01	A	764	22083	3.60	-0.36	-0.07	A	2827	20020	0.01	0.01	0.00	A
34	MC	10247	12535	3.42	-0.13	-0.02	A	19727	3120	0.01	-0.01	0.00	A	764	22083	16.68	-0.77	-0.14	A	2827	20020	1.79	-0.14	-0.02	A
35	MC	10247	12535	20.75	-0.31	-0.06	A	19727	3120	12.72	-0.36	-0.06	A	764	22083	7.71	0.52	0.10	A	2827	20020	2.04	-0.15	-0.03	A
36	MC	10247	12535	7.66	0.18	0.03	A	19727	3120	0.04	-0.02	-0.01	A	764	22083	0.56	-0.14	-0.03	A	2827	20020	1.87	0.14	0.03	A
37	MC	10247	12535	3.86	-0.14	-0.02	A	19727	3120	0.11	0.04	0.01	A	764	22083	2.59	0.33	0.05	A	2827	20020	0.01	-0.01	0.00	A
56	SA1	10247	12535	0.68	0.05	0.01	A	19727	3120	72.62	0.81	0.15	A	764	22083	1.11	-0.19	-0.04	A	2827	20020	1.89	0.14	0.03	A
57	SA1	10247	12535	155.12	-0.88	-0.16	A	19727	3120	4.66	-0.23	-0.05	A	764	22083	0.28	0.10	0.02	A	2827	20020	3.80	-0.22	-0.03	A
58	SA1	10247	12535	105.41	-0.74	-0.13	A	19727	3120	4.12	-0.21	-0.04	A	764	22083	3.42	0.36	0.06	A	2827	20020	22.71	-0.56	-0.08	A

NOTE: MC=Multiple-choice Item, SA1=1 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.18. DIF Statistics based on FRL Students for Items in Reading on Stage III**

Item Number	Item Type	Focal Group: FRL (EL)		Reference Group: Non-FRL (EL)		SMD	Flag
		NF	NR	MH $\chi^2$	$\Delta$ MH		
15	MC	16831	5925	10.18	-0.27	-0.05	A
16	MC	16831	5925	18.98	-0.34	-0.06	A
17	MC	16831	5925	11.24	-0.29	-0.05	A
18	MC	16831	5925	0.13	0.03	0.00	A
19	MC	16831	5925	30.63	-0.50	-0.07	A
20	MC	16831	5925	16.51	-0.31	-0.06	A
21	MC	16831	5925	1.10	-0.08	-0.02	A
22	MC	16831	5925	0.86	-0.07	-0.01	A
23	MC	16831	5925	0.53	-0.06	-0.01	A
24	MC	16831	5925	0.01	0.01	0.00	A
25	MC	16831	5925	2.44	0.12	0.02	A
26	MC	16831	5925	0.19	0.04	0.01	A
27	MC	16831	5925	7.62	-0.21	-0.04	A
28	MC	16831	5925	1.57	-0.09	-0.02	A
29	MC	16831	5925	0.32	0.04	0.01	A
30	MC	16831	5925	18.75	-0.34	-0.06	A
31	MC	16831	5925	0.76	-0.07	-0.01	A
32	MC	16831	5925	10.93	-0.26	-0.05	A
33	MC	16831	5925	0.01	0.01	0.00	A
34	MC	16831	5925	2.33	-0.12	-0.02	A
35	MC	16831	5925	6.31	-0.19	-0.03	A
36	MC	16831	5925	0.02	-0.01	0.00	A
37	MC	16831	5925	7.84	0.23	0.04	A
56	SA1	16831	5925	2.99	0.13	0.03	A
57	SA1	16831	5925	16.16	-0.32	-0.06	A
58	SA1	16831	5925	4.21	-0.17	-0.03	A

NOTE: MC= Multiple-choice Item, SA1=1 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.19. DIF Statistics based on EL Students for Items in Writing on Stage III**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
38	MC	10247	12535	0.14	0.03	0.01	A	19727	3120	2.99	-0.17	-0.03	A	764	22083	1.18	-0.21	-0.04	A	2827	20020	13.61	-0.40	-0.07	A
39	MC	10247	12535	45.49	0.44	0.09	A	19727	3120	11.95	-0.33	-0.07	A	764	22083	4.08	0.36	0.07	A	2827	20020	0.22	-0.05	-0.01	A
40	MC	10247	12535	7.11	0.18	0.03	A	19727	3120	31.84	-0.57	-0.11	A	764	22083	7.31	0.52	0.09	A	2827	20020	0.33	-0.06	-0.01	A
41	MC	10247	12535	34.40	0.39	0.08	A	19727	3120	13.48	-0.36	-0.07	A	764	22083	16.75	0.74	0.14	A	2827	20020	2.49	0.16	0.03	A
42	MC	10247	12535	14.42	0.25	0.05	A	19727	3120	0.75	-0.08	-0.01	A	764	22083	6.06	0.45	0.09	A	2827	20020	1.53	-0.12	-0.02	A
43	MC	10247	12535	38.83	0.45	0.08	A	19727	3120	1.90	-0.14	-0.03	A	764	22083	5.42	0.47	0.08	A	2827	20020	0.85	-0.10	-0.02	A
44	MC	10247	12535	0.61	0.06	0.01	A	19727	3120	1.29	-0.12	-0.02	A	764	22083	0.22	0.09	0.01	A	2827	20020	0.00	0.01	0.00	A
45	MC	10247	12535	6.67	0.20	0.03	A	19727	3120	5.36	0.26	0.04	A	764	22083	4.48	-0.45	-0.07	A	2827	20020	12.20	-0.38	-0.07	A
46	MC	10247	12535	5.65	-0.20	-0.03	A	19727	3120	1.90	-0.17	-0.03	A	764	22083	8.00	0.73	0.09	A	2827	20020	4.47	0.25	0.04	A
47	MC	10247	12535	0.93	0.07	0.01	A	19727	3120	10.98	-0.35	-0.06	A	764	22083	3.52	0.38	0.06	A	2827	20020	1.64	-0.14	-0.02	A
48	MC	10247	12535	11.37	-0.22	-0.04	A	19727	3120	39.68	0.60	0.12	A	764	22083	13.52	-0.67	-0.13	A	2827	20020	12.72	-0.36	-0.07	A
49	MC	10247	12535	22.08	0.39	0.05	A	19727	3120	33.78	0.66	0.10	A	764	22083	0.31	-0.13	-0.02	A	2827	20020	11.88	-0.39	-0.07	A
50	MC	10247	12535	1.75	-0.09	-0.02	A	19727	3120	6.60	0.26	0.05	A	764	22083	0.89	-0.18	-0.03	A	2827	20020	9.38	-0.32	-0.06	A
51	MC	10247	12535	23.02	0.36	0.06	A	19727	3120	13.12	0.39	0.06	A	764	22083	0.71	-0.17	-0.03	A	2827	20020	4.69	-0.23	-0.04	A
52	MC	10247	12535	26.66	-0.37	-0.06	A	19727	3120	0.14	-0.04	-0.01	A	764	22083	0.06	0.05	0.01	A	2827	20020	0.33	-0.06	-0.01	A
53	MC	10247	12535	0.15	-0.03	0.00	A	19727	3120	2.24	0.15	0.03	A	764	22083	0.15	-0.07	-0.01	A	2827	20020	1.63	-0.13	-0.02	A
54	ER	10247	12535	199.06		0.13	A	19727	3120	198.30		0.14	A	764	22083	15.73		0.01	A	2827	20020	24.04		-0.01	A
55	ER	10247	12535	230.62		0.12	A	19727	3120	186.03		0.10	A	764	22083	8.30		0.03	A	2827	20020	30.31		0.01	A

NOTE: MC=Multiple-choice Item, ER=Extended Response Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.20. DIF Statistics based on FRL Students for Items in Writing on Stage III**

Item Number	Item Type	Focal Group: FRL (EL)		Reference Group: Non-FRL (EL)			Flag
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	
38	MC	16831	5925	38.99	-0.48	-0.09	A
39	MC	16831	5925	3.39	-0.14	-0.03	A
40	MC	16831	5925	15.12	-0.30	-0.05	A
41	MC	16831	5925	1.89	-0.10	-0.02	A
42	MC	16831	5925	0.13	-0.03	0.00	A
43	MC	16831	5925	1.75	-0.11	-0.02	A
44	MC	16831	5925	1.76	0.11	0.02	A
45	MC	16831	5925	3.06	0.15	0.02	A
46	MC	16831	5925	2.09	0.14	0.02	A
47	MC	16831	5925	6.42	-0.21	-0.03	A
48	MC	16831	5925	3.53	-0.14	-0.03	A
49	MC	16831	5925	5.55	0.22	0.03	A
50	MC	16831	5925	0.06	0.02	0.00	A
51	MC	16831	5925	0.81	0.08	0.01	A
52	MC	16831	5925	9.02	0.24	0.04	A
53	MC	16831	5925	3.80	0.15	0.03	A
54	ER	16831	5925	92.14		-0.05	A
55	ER	16831	5925	8.62		-0.01	A

NOTE: MC= Multiple-choice Item, ER=Extended Response Item , NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.21. DIF Statistics based on EL Students for Items in Listening on Stage III**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
1	MC	10247	12535	3.88	-0.14	-0.03	A	19727	3120	9.17	0.31	0.05	A	764	22083	0.00	0.00	0.00	A	2827	20020	1.88	-0.14	-0.03	A
2	MC	10247	12535	6.36	-0.17	-0.03	A	19727	3120	3.34	0.18	0.03	A	764	22083	0.54	0.14	0.03	A	2827	20020	1.99	-0.14	-0.03	A
3	MC	10247	12535	16.51	-0.28	-0.06	A	19727	3120	12.65	0.36	0.07	A	764	22083	13.59	-0.74	-0.13	A	2827	20020	1.10	-0.11	-0.02	A
4	MC	10247	12535	0.97	0.07	0.01	A	19727	3120	10.34	0.33	0.06	A	764	22083	0.72	-0.17	-0.03	A	2827	20020	2.01	-0.15	-0.03	A
5	MC	10247	12535	28.89	-0.37	-0.07	A	19727	3120	0.22	0.05	0.01	A	764	22083	1.13	-0.20	-0.04	A	2827	20020	0.05	0.02	0.00	A
6	MC	10247	12535	50.88	-0.48	-0.09	A	19727	3120	94.44	-0.92	-0.19	A	764	22083	1.19	0.20	0.04	A	2827	20020	2.36	-0.16	-0.03	A
7	MC	10247	12535	32.32	-0.40	-0.07	A	19727	3120	2.80	-0.17	-0.03	A	764	22083	4.93	-0.43	-0.08	A	2827	20020	7.31	0.29	0.05	A
8	MC	10247	12535	8.39	-0.19	-0.04	A	19727	3120	6.05	-0.24	-0.04	A	764	22083	4.68	-0.40	-0.07	A	2827	20020	13.97	-0.38	-0.07	A
9	MC	10247	12535	25.92	-0.34	-0.07	A	19727	3120	1.20	0.11	0.01	A	764	22083	11.88	0.67	0.12	A	2827	20020	1.19	0.11	0.02	A
10	MC	10247	12535	45.35	-0.47	-0.08	A	19727	3120	0.30	-0.06	-0.01	A	764	22083	0.01	0.02	0.00	A	2827	20020	2.76	0.17	0.03	A
11	MC	10247	12535	33.59	-0.38	-0.08	A	19727	3120	60.99	-0.76	-0.15	A	764	22083	6.89	0.47	0.09	A	2827	20020	0.09	-0.03	-0.01	A
12	MC	10247	12535	5.02	-0.16	-0.03	A	19727	3120	0.48	0.07	0.01	A	764	22083	3.38	-0.37	-0.06	A	2827	20020	2.02	-0.15	-0.03	A
13	MC	10247	12535	18.51	-0.30	-0.05	A	19727	3120	1.10	-0.11	-0.02	A	764	22083	5.34	-0.44	-0.08	A	2827	20020	2.49	0.16	0.03	A
14	MC	10247	12535	5.43	-0.15	-0.03	A	19727	3120	7.55	-0.26	-0.05	A	764	22083	1.46	-0.21	-0.04	A	2827	20020	5.69	0.24	0.05	A

NOTE: MC=Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.22. DIF Statistics based on FRL Students for Items in Listening on Stage III**

Item Number	Item Type	Focal Group: FRL (EL) Reference Group: Non-FRL (EL)					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
1	MC	16831	5925	0.33	0.05	0.01	A
2	MC	16831	5925	1.92	0.11	0.02	A
3	MC	16831	5925	8.40	0.23	0.04	A
4	MC	16831	5925	0.56	0.06	0.01	A
5	MC	16831	5925	3.39	0.15	0.03	A
6	MC	16831	5925	4.25	-0.16	-0.03	A
7	MC	16831	5925	0.20	-0.04	-0.01	A
8	MC	16831	5925	2.18	-0.11	-0.02	A
9	MC	16831	5925	1.44	0.09	0.02	A
10	MC	16831	5925	5.17	0.18	0.03	A
11	MC	16831	5925	11.79	-0.26	-0.05	A
12	MC	16831	5925	1.15	0.09	0.02	A
13	MC	16831	5925	0.48	-0.05	-0.01	A
14	MC	16831	5925	1.36	-0.09	-0.02	A

NOTE: MC= Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.23. DIF Statistics based on EL Students for Items in Speaking on Stage III**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
59	SA4	10247	12535	172.18		0.09	A	19727	3120	88.57		0.08	A	764	22083	18.90		-0.07	A	2827	20020	109.52		0.01	A
60	SA4	10247	12535	31.40		-0.04	A	19727	3120	114.73		0.16	A	764	22083	8.64		0.06	A	2827	20020	109.79		0.24	B>
61	SA4	10247	12535	40.04		-0.04	A	19727	3120	144.30		0.17	A	764	22083	6.48		-0.01	A	2827	20020	88.35		0.09	A
62	SA4	10247	12535	49.81		0.01	A	19727	3120	166.93		0.20	B>	764	22083	11.35		0.00	A	2827	20020	89.77		0.14	A
63	SA4	10247	12535	31.54		-0.05	A	19727	3120	153.28		0.19	B>	764	22083	14.85		0.09	A	2827	20020	200.41		0.28	C>
64	SA4	10247	12535	62.43		-0.02	A	19727	3120	159.63		0.21	B>	764	22083	4.11		-0.02	A	2827	20020	93.18		0.16	A
65	SA4	10247	12535	23.41		0.01	A	19727	3120	105.47		0.16	A	764	22083	2.67		-0.03	A	2827	20020	41.62		0.11	A
66	SA4	10247	12535	41.89		-0.07	A	19727	3120	162.42		0.16	A	764	22083	14.98		0.11	A	2827	20020	98.28		0.07	A

NOTE: SA4=4 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.24. DIF Statistics based on FRL Students for Items in Speaking on Stage III**

Item Number	Item Type	Focal Group: FRL (EL) Reference Group: Non-FRL (EL)					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
59	SA4	16831	5925	6.31		-0.01	A
60	SA4	16831	5925	10.06		0.03	A
61	SA4	16831	5925	5.42		0.02	A
62	SA4	16831	5925	21.28		0.04	A
63	SA4	16831	5925	37.32		0.08	A
64	SA4	16831	5925	22.78		0.06	A
65	SA4	16831	5925	17.27		0.05	A
66	SA4	16831	5925	48.06		0.07	A

NOTE: SA4=4 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.25. DIF Statistics based on EL Students for Items in Reading on Stage IV**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
15	MC	4988	6891	3.64	0.18	0.03	A	9958	1941	16.67	0.52	0.09	A	596	11303	0.43	0.14	0.03	A	1372	10527	3.33	-0.26	-0.05	A
16	MC	4988	6891	6.15	0.23	0.04	A	9958	1941	3.61	0.24	0.03	A	596	11303	1.76	-0.27	-0.05	A	1372	10527	6.60	-0.36	-0.07	A
17	MC	4988	6891	3.41	-0.23	-0.03	A	9958	1941	25.47	0.76	0.11	A	596	11303	19.36	1.48	0.16	B>	1372	10527	9.97	0.57	0.09	A
18	MC	4988	6891	0.17	-0.06	-0.01	A	9958	1941	7.12	0.45	0.04	A	596	11303	8.40	1.02	0.10	B>	1372	10527	2.77	0.32	0.05	A
19	MC	4988	6891	0.30	-0.08	-0.01	A	9958	1941	2.99	0.32	0.03	A	596	11303	14.26	1.67	0.12	C>	1372	10527	39.05	1.41	0.17	B>
20	MC	4988	6891	5.57	0.24	0.04	A	9958	1941	0.13	-0.05	-0.02	A	596	11303	5.83	0.56	0.09	A	1372	10527	7.70	0.41	0.08	A
21	MC	4988	6891	52.68	0.75	0.12	A	9958	1941	0.38	-0.08	-0.02	A	596	11303	0.40	-0.14	-0.02	A	1372	10527	0.27	-0.08	-0.01	A
22	MC	4988	6891	15.15	0.43	0.06	A	9958	1941	0.04	0.03	0.01	A	596	11303	0.04	0.05	0.01	A	1372	10527	0.28	-0.08	-0.01	A
23	MC	4988	6891	13.21	0.34	0.06	A	9958	1941	8.98	0.38	0.07	A	596	11303	0.42	-0.13	-0.03	A	1372	10527	0.96	0.14	0.03	A
24	MC	4988	6891	2.96	0.16	0.03	A	9958	1941	16.71	0.50	0.10	A	596	11303	15.69	-0.80	-0.16	A	1372	10527	0.19	-0.06	-0.01	A
25	MC	4988	6891	8.40	0.27	0.05	A	9958	1941	4.83	0.28	0.05	A	596	11303	9.85	-0.66	-0.13	A	1372	10527	1.84	-0.19	-0.04	A
26	MC	4988	6891	0.89	-0.10	-0.02	A	9958	1941	0.11	0.05	0.00	A	596	11303	0.21	0.11	0.02	A	1372	10527	1.08	-0.17	-0.03	A
27	MC	4988	6891	25.81	-0.51	-0.09	A	9958	1941	0.51	-0.10	-0.02	A	596	11303	1.62	-0.30	-0.05	A	1372	10527	6.58	-0.41	-0.06	A
28	MC	4988	6891	3.17	0.18	0.03	A	9958	1941	12.39	0.47	0.07	A	596	11303	3.43	0.44	0.07	A	1372	10527	0.81	-0.13	-0.03	A
29	MC	4988	6891	30.65	-0.50	-0.10	A	9958	1941	1.33	0.14	0.01	A	596	11303	4.28	-0.43	-0.08	A	1372	10527	10.43	-0.47	-0.09	A
30	MC	4988	6891	59.98	-0.77	-0.13	A	9958	1941	0.02	0.02	0.00	A	596	11303	0.00	-0.01	0.00	A	1372	10527	10.85	-0.49	-0.09	A
31	MC	4988	6891	27.00	-0.51	-0.09	A	9958	1941	4.12	-0.27	-0.05	A	596	11303	0.04	0.05	0.01	A	1372	10527	0.00	0.00	0.00	A
32	MC	4988	6891	15.82	-0.39	-0.07	A	9958	1941	1.04	0.14	0.01	A	596	11303	7.78	0.61	0.11	A	1372	10527	2.39	0.23	0.04	A
33	MC	4988	6891	0.03	0.02	0.00	A	9958	1941	44.32	-0.89	-0.14	A	596	11303	1.00	0.22	0.04	A	1372	10527	0.02	-0.02	0.00	A
34	MC	4988	6891	0.01	0.01	0.00	A	9958	1941	5.58	-0.31	-0.06	A	596	11303	1.47	0.27	0.05	A	1372	10527	7.92	0.42	0.07	A
35	MC	4988	6891	0.01	-0.01	0.00	A	9958	1941	25.16	-0.69	-0.12	A	596	11303	0.16	-0.09	-0.01	A	1372	10527	1.10	-0.16	-0.03	A
36	MC	4988	6891	11.10	-0.32	-0.06	A	9958	1941	1.85	0.18	0.03	A	596	11303	0.20	-0.09	-0.02	A	1372	10527	0.09	0.05	0.01	A
37	MC	4988	6891	29.40	-0.54	-0.10	A	9958	1941	4.19	-0.28	-0.04	A	596	11303	0.21	-0.10	-0.02	A	1372	10527	0.00	-0.01	0.00	A
38	MC	4988	6891	0.84	0.09	0.02	A	9958	1941	0.54	-0.09	-0.02	A	596	11303	1.25	-0.24	-0.05	A	1372	10527	7.53	-0.41	-0.07	A
39	MC	4988	6891	18.27	0.41	0.07	A	9958	1941	2.55	-0.21	-0.05	A	596	11303	1.05	-0.22	-0.04	A	1372	10527	0.26	-0.07	-0.01	A
40	MC	4988	6891	66.71	0.80	0.14	A	9958	1941	0.06	-0.03	-0.01	A	596	11303	1.30	-0.26	-0.05	A	1372	10527	10.15	-0.51	-0.08	A
61	SA1	4988	6891	69.86	-0.82	-0.15	A	9958	1941	3.27	0.25	0.04	A	596	11303	0.15	-0.08	-0.02	A	1372	10527	8.45	-0.46	-0.07	A
62	SA1	4988	6891	0.06	0.03	0.00	A	9958	1941	0.91	0.14	0.02	A	596	11303	2.19	0.34	0.06	A	1372	10527	4.22	-0.36	-0.05	A

NOTE: MC=Multiple-choice Item, SA1=1 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.26. DIF Statistics based on FRL Students for Items in Reading on Stage IV**

Item Number	Item Type	Focal Group: FRL (EL)						Flag
		Reference Group: Non-FRL (EL)				SMD		
		NF	NR	MH $\chi^2$	$\Delta$ MH			
15	MC	8474	3372	18.86	-0.46	-0.08	A	
16	MC	8474	3372	18.13	-0.43	-0.08	A	
17	MC	8474	3372	0.05	-0.03	0.00	A	
18	MC	8474	3372	0.88	-0.14	-0.02	A	
19	MC	8474	3372	0.28	0.09	0.01	A	
20	MC	8474	3372	0.13	0.04	0.01	A	
21	MC	8474	3372	5.23	0.26	0.04	A	
22	MC	8474	3372	0.38	-0.07	-0.01	A	
23	MC	8474	3372	0.92	0.10	0.02	A	
24	MC	8474	3372	16.47	-0.40	-0.08	A	
25	MC	8474	3372	1.57	-0.13	-0.02	A	
26	MC	8474	3372	10.35	-0.38	-0.06	A	
27	MC	8474	3372	11.32	-0.37	-0.06	A	
28	MC	8474	3372	5.06	-0.25	-0.04	A	
29	MC	8474	3372	8.55	-0.29	-0.06	A	
30	MC	8474	3372	1.71	-0.14	-0.02	A	
31	MC	8474	3372	0.76	-0.09	-0.02	A	
32	MC	8474	3372	0.99	-0.11	-0.02	A	
33	MC	8474	3372	3.47	0.20	0.03	A	
34	MC	8474	3372	0.03	-0.02	0.00	A	
35	MC	8474	3372	0.64	-0.09	-0.01	A	
36	MC	8474	3372	26.18	-0.53	-0.10	A	
37	MC	8474	3372	4.23	-0.22	-0.04	A	
38	MC	8474	3372	0.04	-0.02	0.00	A	
39	MC	8474	3372	0.15	0.04	0.01	A	
40	MC	8474	3372	0.72	-0.09	-0.01	A	
61	SA1	8474	3372	3.79	0.21	0.04	A	
62	SA1	8474	3372	10.17	0.37	0.06	A	

NOTE: MC= Multiple-choice Item, SA1=1 Point Short Answer Item , NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.27. DIF Statistics based on EL Students for Items in Writing on Stage IV**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
41	MC	4988	6891	13.88	0.36	0.07	A	9958	1941	15.78	-0.52	-0.11	A	596	11303	26.74	1.21	0.21	B>	1372	10527	0.59	-0.11	-0.02	A
42	MC	4988	6891	0.01	0.01	0.00	A	9958	1941	4.14	0.26	0.05	A	596	11303	0.64	-0.17	-0.03	A	1372	10527	4.40	-0.31	-0.06	A
43	MC	4988	6891	3.24	-0.17	-0.03	A	9958	1941	1.90	-0.18	-0.04	A	596	11303	1.41	0.26	0.05	A	1372	10527	0.16	0.06	0.01	A
44	MC	4988	6891	95.60	0.91	0.17	A	9958	1941	4.53	-0.27	-0.06	A	596	11303	0.01	0.02	0.01	A	1372	10527	5.94	-0.35	-0.07	A
45	MC	4988	6891	31.67	0.54	0.10	A	9958	1941	0.44	0.09	0.01	A	596	11303	0.71	-0.18	-0.03	A	1372	10527	1.32	-0.17	-0.03	A
46	MC	4988	6891	1.99	-0.14	-0.02	A	9958	1941	4.42	-0.29	-0.06	A	596	11303	3.81	0.46	0.07	A	1372	10527	1.36	0.18	0.03	A
47	MC	4988	6891	4.94	0.22	0.04	A	9958	1941	0.24	0.06	0.00	A	596	11303	1.93	0.32	0.05	A	1372	10527	1.94	-0.20	-0.04	A
48	MC	4988	6891	5.50	0.22	0.04	A	9958	1941	3.27	0.23	0.04	A	596	11303	5.07	-0.46	-0.09	A	1372	10527	23.55	-0.70	-0.13	A
49	MC	4988	6891	1.99	0.13	0.03	A	9958	1941	1.27	-0.14	-0.03	A	596	11303	2.09	0.30	0.06	A	1372	10527	5.31	0.33	0.06	A
50	MC	4988	6891	3.81	0.22	0.03	A	9958	1941	0.09	0.04	0.01	A	596	11303	0.40	0.16	0.02	A	1372	10527	0.57	0.12	0.02	A
51	MC	4988	6891	2.02	-0.13	-0.03	A	9958	1941	0.31	0.07	0.02	A	596	11303	0.34	0.12	0.02	A	1372	10527	0.09	-0.04	-0.01	A
52	MC	4988	6891	2.01	-0.15	-0.03	A	9958	1941	0.48	-0.10	-0.01	A	596	11303	2.81	0.39	0.06	A	1372	10527	3.74	0.31	0.05	A
53	MC	4988	6891	0.76	-0.09	-0.01	A	9958	1941	18.76	0.58	0.09	A	596	11303	4.03	-0.45	-0.08	A	1372	10527	13.79	-0.56	-0.10	A
54	MC	4988	6891	15.54	0.42	0.06	A	9958	1941	0.36	0.08	0.01	A	596	11303	0.01	-0.02	0.00	A	1372	10527	11.20	-0.52	-0.09	A
55	MC	4988	6891	25.61	-0.47	-0.09	A	9958	1941	2.20	-0.19	-0.04	A	596	11303	2.84	0.37	0.07	A	1372	10527	2.18	0.21	0.04	A
56	MC	4988	6891	17.15	0.42	0.07	A	9958	1941	4.76	0.29	0.04	A	596	11303	2.31	-0.34	-0.06	A	1372	10527	3.41	-0.27	-0.05	A
57	MC	4988	6891	0.43	0.06	0.01	A	9958	1941	0.62	-0.10	-0.03	A	596	11303	3.49	-0.39	-0.08	A	1372	10527	2.51	-0.23	-0.04	A
58	MC	4988	6891	3.53	0.18	0.03	A	9958	1941	0.91	-0.12	-0.04	A	596	11303	0.02	-0.03	-0.01	A	1372	10527	2.05	0.21	0.04	A
59	ER	4988	6891	209.37		0.16	A	9958	1941	99.47		0.10	A	596	11303	2.69		0.00	A	1372	10527	25.88		0.02	A
60	ER	4988	6891	287.57		0.19	B>	9958	1941	91.93		0.06	A	596	11303	3.12		-0.04	A	1372	10527	52.66		-0.09	A

NOTE: MC=Multiple-choice Item, ER=Extended Response Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.28. DIF Statistics based on FRL Students for Items in Writing on Stage IV**

Item Number	Item Type	Focal Group: FRL (EL)		Reference Group: Non-FRL (EL)			Flag
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	
41	MC	8474	3372	9.19	-0.32	-0.06	A
42	MC	8474	3372	0.11	-0.03	-0.01	A
43	MC	8474	3372	11.76	0.36	0.07	A
44	MC	8474	3372	17.25	-0.42	-0.08	A
45	MC	8474	3372	0.21	-0.05	-0.01	A
46	MC	8474	3372	13.74	0.41	0.07	A
47	MC	8474	3372	2.02	0.15	0.03	A
48	MC	8474	3372	2.81	-0.17	-0.03	A
49	MC	8474	3372	0.05	0.02	0.00	A
50	MC	8474	3372	4.50	0.26	0.04	A
51	MC	8474	3372	2.73	-0.17	-0.03	A
52	MC	8474	3372	7.52	0.31	0.05	A
53	MC	8474	3372	3.16	-0.20	-0.03	A
54	MC	8474	3372	1.39	0.14	0.02	A
55	MC	8474	3372	11.35	0.34	0.06	A
56	MC	8474	3372	6.02	0.27	0.05	A
57	MC	8474	3372	2.38	-0.16	-0.03	A
58	MC	8474	3372	1.28	-0.12	-0.02	A
59	ER	8474	3372	10.31		-0.03	A
60	ER	8474	3372	16.08		-0.04	A

NOTE: MC= Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.29. DIF Statistics based on EL Students for Items in Listening on Stage IV**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MHy <sup>2</sup>	ΔMH	SMD	Flag	NF	NR	MHy <sup>2</sup>	ΔMH	SMD	Flag	NF	NR	MHy <sup>2</sup>	ΔMH	SMD	Flag	NF	NR	MHy <sup>2</sup>	ΔMH	SMD	Flag
1	MC	4988	6891	11.08	-0.35	-0.06	A	9958	1941	1.10	-0.14	-0.02	A	596	11303	1.24	0.27	0.04	A	1372	10527	5.05	0.35	0.06	A
2	MC	4988	6891	15.25	-0.42	-0.07	A	9958	1941	0.83	-0.13	-0.03	A	596	11303	0.10	0.08	0.01	A	1372	10527	5.20	0.35	0.07	A
3	MC	4988	6891	13.93	-0.41	-0.06	A	9958	1941	2.28	-0.22	-0.03	A	596	11303	10.31	0.84	0.12	A	1372	10527	22.16	0.74	0.13	A
4	MC	4988	6891	4.52	-0.19	-0.04	A	9958	1941	2.13	0.18	0.03	A	596	11303	0.61	-0.16	-0.03	A	1372	10527	0.00	0.00	0.00	A
5	MC	4988	6891	26.43	-0.47	-0.09	A	9958	1941	0.04	0.02	0.01	A	596	11303	1.48	0.25	0.05	A	1372	10527	8.41	0.41	0.08	A
6	MC	4988	6891	0.00	0.00	0.00	A	9958	1941	0.24	-0.06	-0.01	A	596	11303	3.65	0.41	0.08	A	1372	10527	1.87	-0.19	-0.04	A
7	MC	4988	6891	14.66	-0.38	-0.07	A	9958	1941	1.05	-0.14	-0.03	A	596	11303	5.19	-0.51	-0.09	A	1372	10527	0.71	0.13	0.02	A
8	MC	4988	6891	6.34	-0.23	-0.05	A	9958	1941	19.83	-0.55	-0.10	A	596	11303	0.50	-0.15	-0.03	A	1372	10527	0.85	-0.14	-0.03	A
9	MC	4988	6891	0.69	-0.08	-0.01	A	9958	1941	0.58	0.10	0.02	A	596	11303	5.43	-0.52	-0.10	A	1372	10527	8.85	-0.48	-0.08	A
10	MC	4988	6891	13.80	-0.35	-0.06	A	9958	1941	0.36	0.08	0.01	A	596	11303	1.36	-0.25	-0.05	A	1372	10527	0.01	0.02	0.00	A
11	MC	4988	6891	20.07	-0.42	-0.08	A	9958	1941	7.00	0.33	0.05	A	596	11303	4.03	-0.43	-0.08	A	1372	10527	1.14	-0.15	-0.03	A
12	MC	4988	6891	2.63	-0.15	-0.03	A	9958	1941	2.12	-0.18	-0.03	A	596	11303	4.54	-0.44	-0.09	A	1372	10527	1.07	-0.15	-0.03	A
13	MC	4988	6891	15.48	-0.39	-0.07	A	9958	1941	0.04	-0.03	0.01	A	596	11303	1.57	-0.28	-0.05	A	1372	10527	0.55	0.11	0.02	A
14	MC	4988	6891	63.33	-0.77	-0.14	A	9958	1941	33.53	0.79	0.13	A	596	11303	4.43	-0.46	-0.09	A	1372	10527	14.92	0.57	0.11	A

NOTE: MC=Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MHy<sup>2</sup>=Mantel-Haenszel Chi-Square, ΔMH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.30. DIF Statistics based on FRL Students for Items in Listening on Stage IV**

Item Number	Item Type	Focal Group: FRL (EL) Reference Group: Non-FRL (EL)					
		NF	NR	MHy <sup>2</sup>	ΔMH	SMD	Flag
1	MC	8474	3372	0.43	-0.08	-0.01	A
2	MC	8474	3372	0.01	-0.01	0.00	A
3	MC	8474	3372	3.11	0.21	0.03	A
4	MC	8474	3372	3.68	-0.19	-0.04	A
5	MC	8474	3372	0.39	0.06	0.01	A
6	MC	8474	3372	0.01	-0.01	0.00	A
7	MC	8474	3372	0.01	0.01	0.00	A
8	MC	8474	3372	2.82	0.17	0.03	A
9	MC	8474	3372	2.75	-0.18	-0.03	A
10	MC	8474	3372	2.85	0.18	0.03	A
11	MC	8474	3372	1.73	-0.13	-0.03	A
12	MC	8474	3372	2.63	0.17	0.03	A
13	MC	8474	3372	0.16	-0.04	-0.01	A
14	MC	8474	3372	0.13	0.04	0.01	A

NOTE: MC= Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MHy<sup>2</sup>=Mantel-Haenszel Chi-Square, ΔMH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.31. DIF Statistics based on EL Students for Items in Speaking on Stage IV**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
63	SA4	4988	6891	7.73	-0.02	A	9958	1941	22.59	0.10	A	596	11303	9.81	0.10	A	1372	10527	91.47	0.26	C>				
64	SA4	4988	6891	42.86	-0.02	A	9958	1941	77.76	0.15	A	596	11303	12.24	0.08	A	1372	10527	73.86	0.20	B>				
65	SA4	4988	6891	42.17	-0.08	A	9958	1941	41.70	0.10	A	596	11303	12.71	0.10	A	1372	10527	107.02	0.26	C>				
66	SA4	4988	6891	73.20	-0.12	A	9958	1941	29.33	0.08	A	596	11303	10.88	0.07	A	1372	10527	90.01	0.19	B>				
67	SA4	4988	6891	92.76	-0.14	A	9958	1941	30.92	0.09	A	596	11303	3.89	0.06	A	1372	10527	102.58	0.27	C>				
68	SA4	4988	6891	133.47	0.10	A	9958	1941	48.65	0.13	A	596	11303	8.87	-0.02	A	1372	10527	104.68	0.20	B>				
69	SA4	4988	6891	29.51	-0.06	A	9958	1941	6.67	0.04	A	596	11303	6.94	0.08	A	1372	10527	109.70	0.24	B>				
70	SA4	4988	6891	40.52	-0.07	A	9958	1941	48.68	-0.02	A	596	11303	41.90	0.18	B>	1372	10527	211.41	0.31	C>				

NOTE: SA4=4 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.32. DIF Statistics based on FRL Students for Items in Speaking on Stage IV**

Item Number	Item Type	Focal Group: FRL (EL) Reference Group: Non-FRL (EL)					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
63	SA4	8474	3372	11.58		-0.05	A
64	SA4	8474	3372	11.06		-0.03	A
65	SA4	8474	3372	10.37		0.01	A
66	SA4	8474	3372	20.17		-0.07	A
67	SA4	8474	3372	9.11		0.02	A
68	SA4	8474	3372	12.30		0.04	A
69	SA4	8474	3372	1.41		-0.01	A
70	SA4	8474	3372	15.70		-0.02	A

NOTE: SA4=4 Point Short Answer Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.33. DIF Statistics based on EL Students for Items in Reading on Stage V**

Item Number	Item Type	Focal Group: Female Reference Group: Male							Focal Group: Hispanic Reference Group: Non-Hispanic							Focal Group: American Indian Reference Group: Non-American Indian							Focal Group: Special Education Reference Group: Non-Special Education						
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag				
15	MC	3351	4308	0.08	0.04	0.01	A	5760	1908	24.99	0.77	0.12	A	299	7369	1.61	0.51	0.07	A	417	7251	2.94	-0.47	-0.08	A				
16	MC	3351	4308	0.87	0.13	0.02	A	5760	1908	4.51	0.34	0.05	A	299	7369	1.19	-0.40	-0.06	A	417	7251	2.78	-0.48	-0.08	A				
17	MC	3351	4308	13.12	-0.51	-0.07	A	5760	1908	5.70	0.39	0.05	A	299	7369	1.87	0.54	0.07	A	417	7251	0.16	-0.12	-0.02	A				
18	MC	3351	4308	0.35	-0.07	-0.01	A	5760	1908	1.79	-0.17	-0.03	A	299	7369	1.77	-0.38	-0.08	A	417	7251	5.43	-0.58	-0.11	A				
19	MC	3351	4308	76.93	-1.08	-0.18	B<	5760	1908	75.98	-1.31	-0.21	B<	299	7369	93.90	4.55	0.52	C>	417	7251	102.25	3.13	0.48	C>				
20	MC	3351	4308	0.00	0.01	0.00	A	5760	1908	27.05	1.12	0.12	B>	299	7369	1.67	0.96	0.06	A	417	7251	1.17	-0.43	-0.05	A				
21	MC	3351	4308	0.50	0.08	0.01	A	5760	1908	0.82	-0.12	-0.03	A	299	7369	9.34	-0.89	-0.17	A	417	7251	28.34	-1.35	-0.26	B<				
22	MC	3351	4308	0.28	-0.06	-0.01	A	5760	1908	17.98	0.56	0.11	A	299	7369	4.36	-0.62	-0.12	A	417	7251	0.02	0.04	0.01	A				
23	MC	3351	4308	2.28	0.18	0.03	A	5760	1908	25.06	0.68	0.12	A	299	7369	0.74	-0.25	-0.05	A	417	7251	0.98	-0.26	-0.05	A				
24	MC	3351	4308	36.90	0.69	0.13	A	5760	1908	0.00	0.00	0.00	A	299	7369	0.30	0.16	0.03	A	417	7251	3.93	-0.49	-0.10	A				
25	MC	3351	4308	67.26	1.07	0.17	B>	5760	1908	0.55	-0.11	-0.02	A	299	7369	1.49	-0.41	-0.06	A	417	7251	9.14	-0.80	-0.14	A				
26	MC	3351	4308	11.08	0.39	0.07	A	5760	1908	5.27	-0.31	-0.05	A	299	7369	12.72	-1.05	-0.20	B<	417	7251	6.11	-0.64	-0.12	A				
27	MC	3351	4308	7.41	0.31	0.06	A	5760	1908	51.35	0.95	0.18	A	299	7369	12.92	-1.05	-0.20	B<	417	7251	23.63	-1.20	-0.24	B<				
28	MC	3351	4308	11.04	0.38	0.07	A	5760	1908	27.70	0.69	0.13	A	299	7369	6.85	-0.76	-0.15	A	417	7251	11.73	-0.88	-0.16	A				
29	MC	3351	4308	3.63	0.22	0.04	A	5760	1908	56.49	1.02	0.19	B>	299	7369	17.69	-1.32	-0.24	B<	417	7251	3.98	-0.52	-0.09	A				
30	MC	3351	4308	19.88	0.52	0.10	A	5760	1908	16.50	0.55	0.10	A	299	7369	1.03	-0.30	-0.06	A	417	7251	2.27	-0.38	-0.07	A				
31	MC	3351	4308	0.04	-0.02	0.00	A	5760	1908	29.72	0.74	0.14	A	299	7369	0.43	-0.19	-0.04	A	417	7251	0.02	-0.04	-0.01	A				
32	MC	3351	4308	29.23	0.72	0.11	A	5760	1908	15.73	-0.62	-0.10	A	299	7369	7.51	-0.92	-0.14	A	417	7251	21.48	-1.22	-0.22	B<				
33	MC	3351	4308	14.67	0.49	0.08	A	5760	1908	0.14	0.05	0.01	A	299	7369	5.36	-0.71	-0.12	A	417	7251	3.16	-0.49	-0.08	A				
34	MC	3351	4308	32.59	0.81	0.12	A	5760	1908	1.65	-0.21	-0.03	A	299	7369	14.71	-1.29	-0.20	B<	417	7251	7.25	-0.76	-0.13	A				
35	MC	3351	4308	0.00	0.00	0.00	A	5760	1908	26.83	-0.67	-0.13	A	299	7369	0.58	-0.23	-0.05	A	417	7251	6.25	-0.65	-0.12	A				
36	MC	3351	4308	14.47	0.45	0.08	A	5760	1908	29.90	0.77	0.14	A	299	7369	4.02	-0.61	-0.11	A	417	7251	23.35	-1.35	-0.23	B<				
37	MC	3351	4308	5.79	0.28	0.05	A	5760	1908	0.00	0.00	0.00	A	299	7369	5.28	-0.67	-0.13	A	417	7251	7.37	-0.70	-0.13	A				
38	MC	3351	4308	2.58	0.21	0.03	A	5760	1908	17.56	0.63	0.11	A	299	7369	8.85	-1.04	-0.17	B<	417	7251	4.63	-0.64	-0.10	A				
39	MC	3351	4308	21.69	0.53	0.11	A	5760	1908	79.58	1.23	0.23	B>	299	7369	6.34	-0.77	-0.15	A	417	7251	8.03	-0.76	-0.14	A				
40	MC	3351	4308	7.70	0.31	0.06	A	5760	1908	0.40	-0.08	-0.02	A	299	7369	0.37	0.17	0.04	A	417	7251	2.95	-0.43	-0.08	A				
41	MC	3351	4308	27.29	0.62	0.11	A	5760	1908	1.92	-0.19	-0.03	A	299	7369	14.50	-1.12	-0.21	B<	417	7251	30.37	-1.44	-0.26	B<				
42	MC	3351	4308	0.17	0.05	0.01	A	5760	1908	1.93	0.20	0.04	A	299	7369	2.42	-0.54	-0.09	A	417	7251	10.43	-1.03	-0.15	B<				

NOTE: MC=Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.34. DIF Statistics based on FRL Students for Items in Reading on Stage V**

Item Number	Item Type	Focal Group: FRL (EL)						Flag
		Reference Group: Non-FRL (EL)						
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD		
15	MC	4657	2960	0.00	0.00	0.00	A	
16	MC	4657	2960	6.47	-0.37	-0.06	A	
17	MC	4657	2960	0.40	0.09	0.01	A	
18	MC	4657	2960	4.08	-0.23	-0.05	A	
19	MC	4657	2960	12.90	0.45	0.08	A	
20	MC	4657	2960	0.59	-0.16	-0.02	A	
21	MC	4657	2960	0.11	-0.04	-0.01	A	
22	MC	4657	2960	2.92	0.20	0.04	A	
23	MC	4657	2960	2.61	0.19	0.04	A	
24	MC	4657	2960	0.17	-0.05	-0.01	A	
25	MC	4657	2960	6.74	-0.34	-0.06	A	
26	MC	4657	2960	6.62	-0.31	-0.06	A	
27	MC	4657	2960	3.01	-0.20	-0.04	A	
28	MC	4657	2960	5.40	-0.27	-0.05	A	
29	MC	4657	2960	1.96	-0.17	-0.03	A	
30	MC	4657	2960	0.37	0.07	0.01	A	
31	MC	4657	2960	0.08	0.03	0.01	A	
32	MC	4657	2960	0.56	-0.10	-0.02	A	
33	MC	4657	2960	1.19	0.14	0.02	A	
34	MC	4657	2960	2.19	-0.21	-0.03	A	
35	MC	4657	2960	1.50	-0.14	-0.03	A	
36	MC	4657	2960	10.79	-0.40	-0.07	A	
37	MC	4657	2960	10.45	-0.38	-0.07	A	
38	MC	4657	2960	4.68	-0.28	-0.05	A	
39	MC	4657	2960	5.49	-0.27	-0.05	A	
40	MC	4657	2960	3.75	-0.22	-0.04	A	
41	MC	4657	2960	0.37	0.07	0.01	A	
42	MC	4657	2960	0.43	-0.09	-0.01	A	

NOTE: MC= Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.35. DIF Statistics based on EL Students for Items in Writing on Stage V**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
43	MC	3351	4308	0.07	-0.03	0.00	A	5760	1908	5.51	-0.32	-0.06	A	299	7369	72.88	2.91	0.49	C>	417	7251	36.67	1.53	0.29	C>
44	MC	3351	4308	5.79	0.27	0.05	A	5760	1908	2.18	-0.19	-0.04	A	299	7369	0.03	-0.05	-0.01	A	417	7251	9.25	0.73	0.15	A
45	MC	3351	4308	38.91	1.03	0.14	B>	5760	1908	1.84	0.25	0.03	A	299	7369	15.87	-1.48	-0.21	B<	417	7251	45.35	-1.90	-0.34	C<
46	MC	3351	4308	2.69	0.19	0.04	A	5760	1908	0.02	0.02	0.01	A	299	7369	0.28	-0.16	-0.03	A	417	7251	0.25	-0.12	-0.02	A
47	MC	3351	4308	5.70	-0.30	-0.05	A	5760	1908	23.92	-0.69	-0.13	A	299	7369	6.46	0.75	0.15	A	417	7251	5.89	0.64	0.12	A
48	MC	3351	4308	19.35	-0.58	-0.09	A	5760	1908	39.39	-0.99	-0.15	A	299	7369	17.79	1.82	0.22	C>	417	7251	37.02	1.98	0.29	C>
49	MC	3351	4308	0.44	-0.08	-0.01	A	5760	1908	54.61	-0.99	-0.19	A	299	7369	4.59	-0.65	-0.12	A	417	7251	2.22	-0.39	-0.07	A
50	MC	3351	4308	4.85	0.25	0.05	A	5760	1908	19.16	-0.57	-0.11	A	299	7369	20.15	-1.25	-0.26	B<	417	7251	0.92	-0.23	-0.05	A
51	MC	3351	4308	8.18	0.33	0.06	A	5760	1908	0.51	0.09	0.02	A	299	7369	2.37	-0.45	-0.09	A	417	7251	12.21	-0.93	-0.17	A
52	MC	3351	4308	2.80	-0.21	-0.04	A	5760	1908	0.08	-0.04	-0.01	A	299	7369	1.10	-0.33	-0.06	A	417	7251	0.20	0.12	0.02	A
53	MC	3351	4308	0.08	-0.04	0.00	A	5760	1908	0.21	-0.07	-0.01	A	299	7369	4.26	-0.65	-0.11	A	417	7251	0.36	0.15	0.03	A
54	MC	3351	4308	20.10	-0.55	-0.09	A	5760	1908	40.94	-0.92	-0.15	A	299	7369	28.95	1.89	0.29	C>	417	7251	13.40	0.97	0.17	A
55	MC	3351	4308	8.87	0.36	0.06	A	5760	1908	2.21	0.21	0.04	A	299	7369	0.68	-0.25	-0.04	A	417	7251	1.88	-0.37	-0.06	A
56	MC	3351	4308	1.48	0.14	0.03	A	5760	1908	27.64	0.68	0.14	A	299	7369	5.23	-0.64	-0.13	A	417	7251	2.14	-0.36	-0.07	A
57	MC	3351	4308	45.84	0.81	0.15	A	5760	1908	3.83	-0.26	-0.05	A	299	7369	33.68	-1.70	-0.32	C<	417	7251	23.44	-1.21	-0.24	B<
58	MC	3351	4308	60.98	1.06	0.16	B>	5760	1908	0.56	-0.11	-0.02	A	299	7369	5.57	-0.76	-0.12	A	417	7251	14.17	-0.96	-0.18	A
59	MC	3351	4308	9.79	0.36	0.07	A	5760	1908	0.85	0.12	0.02	A	299	7369	0.83	0.26	0.05	A	417	7251	0.84	-0.23	-0.04	A
60	MC	3351	4308	3.08	0.20	0.04	A	5760	1908	12.72	-0.48	-0.09	A	299	7369	1.67	-0.39	-0.07	A	417	7251	3.18	-0.47	-0.09	A
61	ER	3351	4308	21.23		0.06	A	5760	1908	74.21		0.06	A	299	7369	7.65		0.09	A	417	7251	5.61		0.02	A
62	ER	3351	4308	45.33		0.11	A	5760	1908	142.23		0.11	A	299	7369	23.44		0.06	A	417	7251	1.51		0.03	A

NOTE: MC=Multiple-choice Item, ER=Extended Response Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.36. DIF Statistics based on FRL Students for Items in Writing on Stage V**

Item Number	Item Type	Focal Group: FRL (EL)						Flag
		Reference Group: Non-FRL (EL)				SMD		
		NF	NR	MH $\chi^2$	$\Delta$ MH			
43	MC	4657	2960	4.52	0.25	0.05	A	
44	MC	4657	2960	9.83	-0.36	-0.07	A	
45	MC	4657	2960	4.64	-0.36	-0.05	A	
46	MC	4657	2960	2.42	-0.18	-0.03	A	
47	MC	4657	2960	1.93	0.17	0.03	A	
48	MC	4657	2960	0.54	0.10	0.02	A	
49	MC	4657	2960	0.44	-0.08	-0.01	A	
50	MC	4657	2960	0.16	-0.05	-0.01	A	
51	MC	4657	2960	0.10	0.04	0.01	A	
52	MC	4657	2960	0.17	-0.05	-0.01	A	
53	MC	4657	2960	5.39	0.30	0.05	A	
54	MC	4657	2960	9.66	0.39	0.06	A	
55	MC	4657	2960	0.12	-0.04	-0.01	A	
56	MC	4657	2960	5.41	-0.27	-0.05	A	
57	MC	4657	2960	0.13	-0.04	-0.01	A	
58	MC	4657	2960	0.96	-0.13	-0.02	A	
59	MC	4657	2960	3.15	0.21	0.04	A	
60	MC	4657	2960	6.37	0.30	0.06	A	
61	ER	4657	2960	5.43		-0.01	A	
62	ER	4657	2960	30.55		-0.06	A	

NOTE: MC= Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.37. DIF Statistics based on EL Students for Items in Listening on Stage V**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
1	MC	3351	4308	6.48	-0.45	-0.05	A	5760	1908	0.35	0.12	0.01	A	299	7369	0.02	-0.07	-0.01	A	417	7251	0.79	-0.31	-0.04	A
2	MC	3351	4308	68.18	-1.03	-0.18	B<	5760	1908	3.29	-0.26	-0.04	A	299	7369	30.17	2.22	0.30	C>	417	7251	13.73	1.07	0.18	B>
3	MC	3351	4308	20.27	-0.54	-0.10	A	5760	1908	3.94	0.28	0.04	A	299	7369	3.76	0.62	0.11	A	417	7251	5.82	0.63	0.12	A
4	MC	3351	4308	11.94	-0.39	-0.08	A	5760	1908	0.13	-0.05	-0.01	A	299	7369	0.18	0.12	0.02	A	417	7251	9.31	0.75	0.15	A
5	MC	3351	4308	33.64	-0.70	-0.12	A	5760	1908	24.10	-0.69	-0.12	A	299	7369	14.30	1.26	0.21	B>	417	7251	14.09	1.01	0.18	B>
6	MC	3351	4308	5.71	-0.28	-0.05	A	5760	1908	6.12	-0.33	-0.07	A	299	7369	6.32	0.73	0.15	A	417	7251	0.14	-0.10	-0.02	A
7	MC	3351	4308	98.08	-1.22	-0.20	B<	5760	1908	5.80	-0.34	-0.06	A	299	7369	23.05	1.48	0.26	B>	417	7251	17.60	1.08	0.20	B>
8	MC	3351	4308	0.19	-0.05	-0.01	A	5760	1908	6.69	-0.34	-0.07	A	299	7369	1.23	-0.32	-0.06	A	417	7251	0.34	0.15	0.03	A
9	MC	3351	4308	11.01	-0.38	-0.07	A	5760	1908	6.30	0.33	0.07	A	299	7369	0.10	0.09	0.02	A	417	7251	22.41	1.18	0.23	B>
10	MC	3351	4308	0.89	-0.11	-0.02	A	5760	1908	0.79	-0.11	-0.03	A	299	7369	0.05	-0.07	-0.01	A	417	7251	1.51	0.30	0.06	A
11	MC	3351	4308	18.74	-0.51	-0.09	A	5760	1908	38.29	0.85	0.15	A	299	7369	1.30	-0.33	-0.07	A	417	7251	1.73	-0.35	-0.06	A
12	MC	3351	4308	4.89	0.26	0.05	A	5760	1908	22.19	0.65	0.11	A	299	7369	11.11	-1.01	-0.19	B<	417	7251	0.06	0.06	0.01	A
13	MC	3351	4308	5.58	-0.29	-0.05	A	5760	1908	0.50	-0.10	-0.02	A	299	7369	5.32	0.75	0.12	A	417	7251	24.78	1.40	0.23	B>
14	MC	3351	4308	0.02	0.02	0.00	A	5760	1908	0.31	-0.07	-0.02	A	299	7369	0.96	0.29	0.06	A	417	7251	0.01	0.03	0.01	A

NOTE: MC=Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.38. DIF Statistics based on FRL Students for Items in Listening on Stage V**

Item Number	Item Type	Focal Group: FRL (EL) Reference Group: Non-FRL (EL)					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
1	MC	4657	2960	1.76	0.24	0.03	A
2	MC	4657	2960	8.88	0.38	0.07	A
3	MC	4657	2960	1.19	-0.13	-0.02	A
4	MC	4657	2960	11.55	0.39	0.08	A
5	MC	4657	2960	1.22	0.14	0.02	A
6	MC	4657	2960	0.09	0.04	0.01	A
7	MC	4657	2960	1.30	0.14	0.02	A
8	MC	4657	2960	0.08	-0.03	-0.01	A
9	MC	4657	2960	0.68	-0.10	-0.02	A
10	MC	4657	2960	3.09	-0.20	-0.04	A
11	MC	4657	2960	2.37	0.18	0.03	A
12	MC	4657	2960	2.74	-0.20	-0.04	A
13	MC	4657	2960	5.81	0.30	0.05	A
14	MC	4657	2960	0.05	0.03	0.00	A

NOTE: MC= Multiple-choice Item, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.39. DIF Statistics based on EL Students for Items in Speaking on Stage V**

Item Number	Item Type	Focal Group: Female Reference Group: Male						Focal Group: Hispanic Reference Group: Non-Hispanic						Focal Group: American Indian Reference Group: Non-American Indian						Focal Group: Special Education Reference Group: Non-Special Education					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag	NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
63	SA4	3351	4308	77.81	-0.13	A	5760	1908	10.17	-0.04	A	299	7369	9.22	0.14	A	417	7251	65.35	0.34	C>				
64	SA4	3351	4308	23.37	-0.05	A	5760	1908	9.12	0.00	A	299	7369	9.11	0.08	A	417	7251	15.77	0.09	A				
65	SA4	3351	4308	93.25	-0.09	A	5760	1908	11.92	0.02	A	299	7369	31.97	0.18	B>	417	7251	47.87	0.30	C>				
66	SA4	3351	4308	176.15	-0.23	B<	5760	1908	26.76	0.04	A	299	7369	23.75	0.21	B>	417	7251	32.83	0.16	A				
67	SA4	3351	4308	14.26	-0.02	A	5760	1908	15.31	0.02	A	299	7369	2.09	0.03	A	417	7251	20.38	0.19	B>				
68	SA4	3351	4308	73.90	-0.11	A	5760	1908	43.10	-0.10	A	299	7369	11.33	0.10	A	417	7251	83.88	0.33	C>				
69	SA4	3351	4308	14.09	0.00	A	5760	1908	4.66	0.02	A	299	7369	4.89	-0.05	A	417	7251	19.94	0.14	A				
70	SA4	3351	4308	66.12	-0.10	A	5760	1908	56.79	-0.13	A	299	7369	55.91	0.27	C>	417	7251	155.79	0.46	C>				

NOTE: SA4=4 Point Short Answer, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.

**Table F.40. DIF Statistics based on FRL Students for Items in Speaking on Stage V**

Item Number	Item Type	Focal Group: FRL (EL) Reference Group: Non-FRL (EL)					
		NF	NR	MH $\chi^2$	$\Delta$ MH	SMD	Flag
63	SA4	4657	2960	13.34		0.02	A
64	SA4	4657	2960	13.04		-0.03	A
65	SA4	4657	2960	11.04		-0.03	A
66	SA4	4657	2960	20.47		-0.01	A
67	SA4	4657	2960	29.08		-0.10	A
68	SA4	4657	2960	9.72		-0.01	A
69	SA4	4657	2960	11.23		-0.06	A
70	SA4	4657	2960	33.07		0.02	A

NOTE: SA4=4 Point Short Answer, NF=Number of students in a focal group, NR=Number of students in a reference group, MH $\chi^2$ =Mantel-Haenszel Chi-Square,  $\Delta$ MH=MH Delta DIF, SMD=Standardized Mean Difference, A=No DIF, B=Weak DIF, C=Strong DIF, < favors reference group, > favors focal group; item number does not indicate item location on an operational test form as field test items were embedded on the form but were not included in the analysis.