

Transitioning to the AZ Mathematics and English Language Arts Standards (2010)

The Arizona Department of Education is committed not only to developing clear and rigorous standards, but to supporting and assisting schools in implementing those standards so that all Arizona's students have the opportunity to learn them. With that goal in mind, and to be responsive to the field, the ADE has developed an implementation plan to transition to Arizona's 2010 Mathematics and English Language Arts Standards.

This document outlines the professional development and technical assistance the Arizona Department of Education will sponsor to ensure that districts, schools and teachers receive the assistance they need in integrating the 2010 Standards in Mathematics and English Language Arts into a comprehensive course of study in K-12 including Reading, Writing, Listening, Speaking, Mathematics, Science, Social Studies, Fine Arts, and Health/Physical Education. It is our goal to help teachers recognize how the standards complement one another and how learning is strengthened when connections are made across curricular areas.

The support and assistance plan is comprised of two components:

- I. Professional Development
 - a. Introduction to the new standards with accompanying implementation documents (crosswalks showing alignment from the "old" standards to the "new" standards and changes summaries or gap analysis documents)
 - b. Curriculum alignment and development (lesson plans) including developing assessment tools aligned to the new standards
 - c. Leadership development with support for sequencing instructional change with connections to Response to Intervention
 - d. Mathematics and English language arts content specific sessions
 - e. Integrating mathematics and English language arts: Cross-curricular connections
- II. Technical Assistance
 - a. Resources: The built-in instructional support that provides clarification and explanation of the standards and supporting instructional examples to assist teachers in understanding and teaching the content of the standards
 - b. Resources: The selection and use of instructional materials that support the mathematics and English language arts standards
 - c. Closer to home: Regional assistance in implementation
 - d. Communication networks

It is not an all-inclusive or rigid plan; the ADE will modify, adjust, and add as the plan progresses. It is our belief that careful and intentional planning will allow educators to experience a natural and smooth transition from the "old" to the "new" standards and enhance their abilities to effectively teach in a standards-based system.

NOTE: A goal of the ADE is to offer several opportunities on IDEAL to take advantage of technology in providing professional development and technical assistance.

Professional Development: Mathematics and English Language Arts

Content	Provider/Timeline/Location
<p><i>“AZ Counts Conference” and “AZ READS Conference”</i> These 2-day and 1-day conferences will provide a mechanism for:</p> <ul style="list-style-type: none"> • Introducing the new mathematics and English language arts documents with instructional support • “Unwrapping” the big ideas of the new standards by grade level • Crosswalking “old” to the “new” standards • Highlighting grade level changes • Digging deeper into critical concepts • Providing a leadership Strand for Administrators 	<ul style="list-style-type: none"> • ADE staff and standards specialists w/ featured presenters and Arizona teachers • Fall 2010 - ongoing • Regional
<p><i>“Introducing Arizona’s Mathematics and English Language Arts Standards”</i> These K-12 and/or Grade Level Band sessions will provide teachers with an overview of the standards and present strategies to incorporate the standards into the curriculum; resources will be highlighted to teach the standards.</p>	<ul style="list-style-type: none"> • ADE staff and standards specialists w/featured presenters and Arizona teachers • Fall 2010-ongoing • Regional • IDEAL • Webinar
<p><i>“Unwrapping the Mathematics and English Language Arts Standards”</i> This half-day session will:</p> <ul style="list-style-type: none"> • Introduce the new standards • “Unpack” the big ideas • Crosswalk “old” to the “new” standards • Highlight changes at each grade level • Examine scheduling options in the elementary school day • Examine curriculum/lesson design • Review available resources • Identify connections within the standards and cross-curricular connections 	<ul style="list-style-type: none"> • ADE staff, standards specialists w/ featured presenters and Arizona teachers • 2010-1201 school year - ongoing • Regional • Webinar • IDEAL
<p><i>“Introduction to Standards for Literacy in History/Social Studies & Science” (for Grades 6-12 Science Teachers)</i> This informational webinar will provide an overview of these literacy standards and strategies for grades 6-12 science teachers to embed them into their existing curriculum.</p>	<ul style="list-style-type: none"> • ADE staff • Spring 2011-ongoing • Webinar

Content	Provider/Timeline/Location
<p><i>“Introduction to Standards for Literacy in History/Social Studies & Science” (for Grades 6-12 Social Studies Teachers)</i> This informational webinar will provide an overview of these literacy standards and strategies for grades 6-12 social studies teachers to embed them into their existing curriculum.</p>	<ul style="list-style-type: none"> • ADE staff • Spring 2011-ongoing • Webinar
<p><i>“Curriculum Mapping”</i> This session will provide strategies to align curriculum to our state standards and allows for the planning of content coverage in the school year.</p>	<ul style="list-style-type: none"> • National and Arizona presenters • 2011-2012 school year - ongoing • Regional
<p><i>“Selecting Mathematics and English Language Arts Curricula Seminars”</i> These seminars identify factors involved in selecting curricula including alignment to state standards; examine the ADE’s process and protocol for the review and analyses of instructional materials to determine alignment; facilitate teams in conducting a gap analysis between standards and instructional materials; and support teams in considering effective selection and implementation processes.</p>	<ul style="list-style-type: none"> • ADE staff and standards specialists w/featured presenters and Arizona teachers • Standards Committees • 2011-2012 school year - ongoing • Regional
<p><i>“Curriculum Topic Study in Mathematics”</i> There will be a series of one-day workshops that will be topic specific. These topics will be selected based upon the greatest areas of need as determined by AIMS student scores. Possible topics may include: fractions, number sense, or proof. The workshops will assist K-12 educators in deepening their understanding of the important mathematics topics they teach by building a bridge between state standards, research on students’ ideas and misconceptions in mathematics, and opportunities for students to learn important concepts through improved teacher practice.</p>	<ul style="list-style-type: none"> • ADE staff and standards specialists w/ featured presenters and Arizona teachers • 2011-2012 school year - ongoing • Regional
<p><i>ADE Academies Focusing on Mathematics and English Language Arts Topics</i> Various academies will be scheduled throughout the school year that target specific content identified through analysis of statewide AIMS results as areas of focus.</p>	<ul style="list-style-type: none"> • National and Arizona presenters • ADE staff and standards specialists w/featured presenters and Arizona teachers • Ongoing • Regional

Content	Provider/Timeline/Location
<p><i>ADE Institutes Focusing on Leadership in Mathematics and English Language Arts</i> Sessions will be offered that focus on leadership development with support for sequencing instructional change with connections to Response to Intervention. This opportunity will highlight important changes in the standards that will impact curriculum, instruction, and assessment.</p>	<ul style="list-style-type: none"> • National and Arizona presenters • ADE staff, standards specialists, and Arizona teachers • 2010-2011 school year - ongoing • Regional
<p><i>ADE Academies/ Institutes/Conferences</i> At various professional development opportunities scheduled throughout the year, sessions on the 2010 Mathematics and English Language Arts Standards will be offered, such as:</p> <ul style="list-style-type: none"> • Leading Change – June 2010 • Mega Conference – November 2010 • Arizona Association of Teachers of Mathematics Conference – Fall 2010 • Arizona Reading association Conference – Fall 2010 • Directors institute – Fall 2010 • Mathematics Educator Appreciation Day Conference – Spring 2011 	<ul style="list-style-type: none"> • ADE staff and standards specialists w/featured presenters and Arizona teachers • Ongoing

Technical Assistance: Mathematics and English Language Arts

Resources	Provider/Timeline
<p><i>Mathematics and English Language Arts Standards Documents with AZ Instructional Support, Crosswalks, Changes Summaries, and Sample Tests with Student Think Throughs</i> The Mathematics and English Language Arts Standards documents will be available by grade level with built-in instructional support and in various grade level bands in a horizontal format. All of these documents will be provided in both word and PDF. The crosswalks from the “old” standards to the “new” standards and the changes summaries by grade level will be posted on the website for assistance in the transition. These supplemental documents will assist schools/districts in identifying possible gaps in instruction and support them in designing a suitable implementation plan. Development of grade level <i>Sample Tests and Student Think Throughs</i> will be created that align with the new standards. These unique think throughs will focus on how a student might analyze a test item based on a particular learning expectation.</p>	<ul style="list-style-type: none"> • ADE staff and standards specialists w/Standards Committees • Summer/Fall 2010 • Ongoing revision of instructional support and student sample tests and student think throughs

Resources	Provider/Timeline
<p><i>IDEAL</i> This searchable online database provides curricular resources, including trade books, lesson plans, reading passages, media, examples, assessment items, and links to external web sites that will support understanding and implementation of the mathematics and English language arts standards. Additional resources will also be created that align to the new standards.</p>	<ul style="list-style-type: none"> • IDEAL staff • ADE staff, standards specialists, and Arizona teachers • Ongoing
<p><i>ADE website: Mathematics and English Language Arts Content Pages</i> These content sites contain and link to relevant information that supports the understanding and implementation of the mathematics and English language arts standards.</p>	<ul style="list-style-type: none"> • ADE staff • Ongoing

Support	Provider/Timeline
<p><i>County ESA Meetings</i> These meetings will provide ongoing opportunities to discuss strategies for the implementation of the new mathematics and English language arts standards (2010).</p>	<ul style="list-style-type: none"> • ADE staff and standards specialists • Quarterly
<p><i>Professional Organization Meetings</i> These meetings will ensure the ongoing communication between professional organizations and the ADE to address highly qualified teacher issues, content issues, implementation issues, available resources and discuss challenges and solutions.</p>	<ul style="list-style-type: none"> • ADE staff • Arizona Association for Teachers of Mathematics • Arizona Reading Association • Arizona English Teachers Association • Current and ongoing
<p><i>IDEAL</i> message boards for learning, discussion/reflection, etc.</p>	<ul style="list-style-type: none"> • ADE staff and standards specialists • Ongoing