

Technology Strategies with Technology Action Steps in the **ALEAT** Consolidated Plan

The primary goal [of educational technology] is to improve student academic achievement through the use of technology in elementary schools and secondary schools. Enhancing Education Through Technology Act of 2001, 20 U.S.C. (2010)

The purpose of this resource is to provide technical assistance for Local Education Agencies (LEAs) in regard to infusing their technology plan into the Consolidated Plan found in the Arizona Local Education Agency Tracker (ALEAT) system.

The Consolidated Plan consists of No Child Left Behind (NCLB) federal goals, a technology literacy (for students) goal, strategies that support each goal, and action steps that illustrate what an LEA will implement (or do) that correlate with specific strategies. This portion of the technology plan is expected to be updated by the LEA annually in ALEAT.

LEAs are responsible for determining a SMART goal for each of the NCLB goals. There is only one (1) SMART goal per NCLB goal. There may be several strategies with accompanying action steps that all relate to the SMART goal. LEAs are also responsible for developing a *strategic educational technology plan that is **consistent with the objectives of the statewide education technology plan...and such other information as the State educational agency may reasonably require, at such time and in such manner as the State educational agency may require.*** Enhancing Education Through Technology Act of 2001, 20 U.S.C. § 6764 (2010) http://www.azed.gov/technology/downloads/2009-2013_state_edtech_plan.pdf

Reflecting on the goals of educational technology, it is necessary to include technology focused strategies with accompanying action steps into the Consolidated Plan while being cognizant of the State educational technology standard.

http://www.azed.gov/standards/technology/Articulated_Grade_Level/



(1) PRIMARY GOAL- The primary goal of this part is to improve student academic achievement through the use of technology in elementary schools and secondary schools.

(2) ADDITIONAL GOALS- The additional goals of this part are the following:

(A) To assist every student in crossing the digital divide by ensuring that every student is technologically literate by the time the student finishes the eighth grade, regardless of the student's race, ethnicity, gender, family income, geographic location, or disability.

(B) To encourage the effective integration of technology resources and systems with teacher training and curriculum development to establish research-based instructional methods that can be widely implemented as best practices by State educational agencies and local educational agencies.

Enhancing Education Through Technology Act of 2001, 20 U.S.C. (2010)

Throughout this resource, the Arizona Department of Education (ADE) has included **sample** technology focused strategies and actions steps that directly relate to the goals of the Consolidated Plan [in red brackets] that may be used as brainstorming starters.

References to the content of the strategic educational technology plan, as per Enhancing Education Through Technology Act of 2001, 20 U.S.C. § 6764 (2010), has been included.

All action steps in a Consolidated Plan that incorporate any form of technology or professional development regarding technology must include the “Tech” tag that is found inside the developing or editing of an action step.

The ADE encourages collaboration among the different departments within an LEA to maximize resources and communicate how technology will be effective in regard to implementing the goals set by the LEA. As a representative of an LEA, who is completing the technology plan, you may notice strategies and action steps related to technology that are currently in place in the Consolidated Plan. These should be considered part of the technology plan, and must have a “Tech” tag added to the action steps.

The Arizona Department of Education is requiring LEAs to address Internet Safety and CIPA requirements in the *Safe, Drug-Free Schools Conducive to Learning* goal in the Consolidated Plan. (sample strategy and action steps can be found on page 8.)



Technology Plan Requirements: Enhancing Education Through Technology Act of 2001, 20 U.S.C. § 6764 (2010)

- ❖ *Strategies for improving academic achievement and teacher effectiveness*
- ❖ *Promotion and integration of curricula and teaching strategies that integrate technology*
- ❖ *Technology type and costs*
- ❖ *Coordination with other resources*
- ❖ *Innovative delivery strategies*
- ❖ *Accountability measures*
- ❖ *Supporting resources*

The Consolidated Plan goals that these technology plan requirements refers to:

- Reading/Language Arts
- Math
- English Proficiency for ELLs
- High School Graduation
- Technology Literacy

Strategy Title: Classroom Observations [Reading/Language Arts; Math; English Proficiency for ELLs goals; Technology Literacy]

Description: The district and school site leaders will conduct classroom observations to determine strengths and weaknesses of the level of implementation of identified instructional strategies.

Action Step: The leadership staff will conduct weekly classroom walk-through observations utilizing Mobile Principal *software* and *hand-held hardware* for collecting data.

Action Step: Teachers will engage in the *Intel® Teach Elements – Assessment* professional development course facilitated by our county Technology Integration Specialist (TIS).

Strategy Title: Teacher Collaborative Sharing and Learning [Reading/Language Arts; Math; English Proficiency in ELLs; High School Graduation; HQ Teachers and Para-Professionals]

Description: Teachers will create collaborative sharing and learning groups to discuss issues, share resources, and innovate.

Action Step: Teachers will utilize the *collaborative Interest Groups application and various Google Apps for Education in IDEAL* to collaboratively share



resources, discuss current issues, and create innovative ideas for increasing academic achievement.

Action Step: Technology coaches will be trained in the *Puget Sound Peer Coaching program* that they will incorporate with the teachers that they work with at their school sites.

Action Step: Teachers will complete the *Intel® Teach – Teaching with Technology* professional development course facilitated by our county Technology Integration Specialist (TIS); and use their gained technology knowledge in instructional planning and implementation of academic lessons in the classroom.

Action Step: Teachers will engage in the *Intel® Teach Essentials* professional development course facilitated by our county Technology Integration Specialist (TIS).

Action Step: Teachers will engage in the *Intel® Teach Elements – Project Based Approaches* professional development course facilitated by our county Technology Integration Specialist (TIS).

Strategy Title: **Vocabulary Development for ELL Students or Vocabulary Development for Reading/Language Arts Proficiency** [Reading/Language Arts Proficiency; English Proficiency for ELLs]

Description: Vocabulary development for ELLs as a part of the 4-hour SEI model.

Action Step: Teachers will *integrate technology* during vocabulary instruction by utilizing the *Oxford Picture Dictionary Classroom Presentation Tool and the Oxford Picture Dictionary Interactive* for students.

Action Step: Teachers will engage in the *Intel® Teach Thinking with Technology* professional development course facilitated by our county Technology Integration Specialist (TIS).

Strategy Title: **Formative Assessment** [Reading/Language Arts; Math; English Proficiency for ELLs; High School Graduation; Technology Literacy]

Description: Students will engage in real-time formative assessments with a teacher's immediate feedback to increase academic achievement.



Action Step: Teachers will engage in *the Intel® Teach Elements – Assessment* professional development course facilitated by our county Technology Integration Specialist (TIS).

Action Step: Students will use a *student response system (handheld devices known as “clickers”)* to respond to questions asked verbally, on paper, or on screen that enables the teacher to instantly assess students’ comprehension of lessons and provide immediate feedback to the students.

Action Step: Teachers will use an *InterwriteMobi system* and *InterwriteWorkSpace software* in conjunction with the student response system to identify students who need special attention or topics that require re-teaching.

Action Step: Teachers will utilize *the online ExamView Assessment Suite* to create, administer, and manage assessments through the district’s network connection.

Action Step: Teachers will utilize the *Formative Assessment and AIMS for Educators resources through IDEAL* to create concept level pre- and post –tests, and to use the assessment-item data bank to create tests for their students.

Strategy Title: **Student-Centered Collaborative Learning** [Reading/Language Arts; Math; English Proficiency for ELLs; High School Graduation, Technology Literacy]

Description: Students will engage in technology integrated student-centered collaborative learning lessons.

Action Step: Teachers will engage in the *Intel® Teach Thinking with Technology* professional development course facilitated by our county Technology Integration Specialist (TIS).

Action Step: Students will use *InterwriteMOBI learner tablets* in small collaborative group instruction with the teacher.

Action Step: Teachers will engage in the *Intel® Teach Elements – Project Based Approaches* professional development course facilitated by our county Technology Integration Specialist (TIS).



Strategy Title: Advanced Placement and Dual-Enrollment [High School Graduation; Technology Literacy]

Description: Students will engage in Advanced Placement and Dual-Enrollment courses as a motivation for high school graduation.

Action Step: Students will enroll in the **online** Advanced Placement courses offered through **IDEAL**.

Action Step: Students will enroll in **online hybrid** Dual-Enrollment courses offered through the local community college and high school.

Strategy Title: Engaged Learning [Reading/Language Arts; Math; English Proficiency for ELLs; High School Graduation; Technology Literacy]

Description: Teachers will engage students in academic lessons through the use of technology in order to increase academic achievement.

Action Step: Teachers will utilize **Discovery Education Streaming and iTunesU through IDEAL** to engage students in their lessons.

Action Step: Teachers will engage in the **Intel® Teach Elements – Project Based Approaches** professional development course facilitated by our county Technology Integration Specialist (TIS).

Strategy Title: Lesson Planning [Reading/Language Arts; Math; English Proficiency for ELLs; High School Graduation; Technology Literacy]

Description: Teachers will use technology tools to plan academic lessons that meet the needs of students.

Action Step: Teachers will use **Recipes4Success and Learning Resource Manager through IDEAL** to assist with creating standards-based academic lessons.

Action Step: Teachers will engage in the **Intel® Teach Elements – Project Based Approaches** professional development course facilitated by our county Technology Integration Specialist (TIS).



Action Step: Teachers will engage in the *Intel® Teach Essentials* professional development course facilitated by our county Technology Integration Specialist (TIS).

Technology Plan Requirements: Enhancing Education Through Technology Act of 2001, 20 U.S.C. § 6764 (2010)

- ❖ *Professional development*
- ❖ *Steps to increase accessibility*
- ❖ *Innovative delivery strategies*
- ❖ *Strategies for improving academic achievement and teacher effectiveness*
- ❖ *Promotion and integration of curricula and teaching strategies that integrate technology*
- ❖ *Technology type and costs*
- ❖ *Coordination with other resources*
- ❖ *Collaboration with adult literacy service providers*
- ❖ *Accountability measures*
- ❖ *Supporting resources*

The Consolidated Plan goals that these technology plan requirements refers to:

- Highly Qualified Teachers and Para Professionals

Strategy Title: English Language Development Round II Training [HQ Teachers and Para-Professionals; English Proficiency for ELLs]

Description: Teachers with ELL students will be trained in English Language Development (ELD) through ADE's Round II A, B, & C training.

Action Step: Teachers will enroll in the *online* 45-Hour SEI Completion course through *IDEAL*.

Strategy Title: Opportunities to Become Highly Qualified [HQ Teachers and Para-Professionals]

Description: Teachers needing to become HQ will be required to complete an Individual Teacher Plan describing the deficits and coursework or tests they must complete in order to become HQ.

Action Step: Teachers will enroll in professional development courses that align with obtaining HQ status through *IDEAL*.



Action Step: Teachers will enroll in **online courses** through a college or university that align with the requirements for obtaining HQ status.

Action Step: Teachers will engage in the **Intel® Teach Thinking with Technology and/or Intel® Teach Essentials** professional development course facilitated by our county Technology Integration Specialist (TIS).

Technology Plan Requirements: Enhancing Education Through Technology Act of 2001, 20 U.S.C. § 6764 (2010)

- ❖ *Steps to increase accessibility*
- ❖ *Technology type and costs*
- ❖ *Integration of technology with curricula and instruction*
- ❖ *Coordination with other resources*
- ❖ *Accountability measures*
- ❖ *Supporting resources*

The Consolidated Plan goals that these technology plan requirements refers to:

- Safe, Drug-Free Schools Conducive to Learning

Strategy Title: Internet Safety [Safe, Drug-Free Schools Conducive to Learning]

Description: The district will use technology to create safe schools that are conducive to learning.

Action Step: The district will provide **safe and appropriate internet access** through the district firewall that is compliant with **CIPA procedures**.

Action Step: The district will require all staff, students, and parents to read, accept, and sign an *Acceptable Use Policy for technology and the internet* prior to using such tools.

Action Step: The school district will develop policies and procedures related to **maintenance of hardware, software, infrastructure, and security**.

Action Step: The school district will meet **current and future requirements to keep the technology current; maintain and support existing technology and networking**.

Action Step: The school district will ensure that **the infrastructure for broadband connectivity** delivered to district classrooms is commensurate with state-of-the-art information systems.



Technology Plan Requirements: Enhancing Education Through Technology Act of 2001, 20 U.S.C. § 6764 (2010)

- ❖ *Parental Involvement*
- ❖ *Technology type and costs*
- ❖ *Coordination with other resources*
- ❖ *Accountability measures*
- ❖ *Supporting resources*

The Consolidated Plan goals that these technology plan requirements refers to:

- Parent Involvement

Strategy Title: Access to Increased Communication [Parent Involvement]

Description: The district will increase and maintain access to communication from the district and school level to parents and families through the use technology.

Action Step: The district will maintain an up-to-date *internet web page* communicating information about the district and school to families, the community, and the world.

Action Step: The district retain an *infrastructure that enables email communication and notification systems* through technology in order to communicate with parents and families.

Action Step: The district will maintain an *online student management system* that allows parents access to their child's grades and electronic student portfolios.

Action Step: Each school library or media center will support/host a *math/science/technology week* in the fall and spring semester of the school year including one *open house evening showcasing math/science/and technology*.

Other sample technology related strategies and action steps.

Strategy Title: Technology Support

Description: Expand the use of technology for instruction, professional development, data collection, and parent/community/school communication.



Action Step: The District will provide adequate *technology resources* to support administrative data gathering and reporting, *technology tools* for student instruction and assessment data gathering, community and staff communication, and *technology integration* professional development activities.

Action Step: Employ staff for the following activities: *technology planning, network management, website design, technology integration professional development and technical support* to all staff.

Action Step: Teachers will engage in the *Intel® Teach Elements – Assessment/Project Based Learning*, or *Intel® Teach Essentials*, or *Intel® Teach Thinking with Technology*, or *Intel® Teach Leadership Forum* professional development courses facilitated by our county Technology Integration Specialist (TIS).

Miscellaneous action steps:

Action Step: District leaders and administrators will engage in the *Intel® Teach Leadership Forum* professional development course facilitated by our county Technology Integration Specialist (TIS).

Action Step: The school district will acquire a district *license with Gaggle.Net* with individual online Digital Lockers for saving student work.

Action Step: The school district will acquire a district *license to Voyager Learning* for Ticket to Read prescriptive interactive accounts for each student that can be used with each student's benchmark scores.

Action Step: The school district will administer the *Technology Literacy Assessment (TLA)* pre- and post –assessments with the 5th and 8th grades.

