

# Arizona's Educational Technology Standard

The Educational Technology Standard Articulated by Grade Level is divided into six main strands:

- Creativity and Innovation
- Communication and Collaboration
- Research and Information Literacy
- Critical Thinking, Problem Solving, and Decision Making
- Digital Citizenship
- Technology Operations and Concepts



Each strand is divided into concepts that broadly define the skills and knowledge that students are expected to know and be able to do. Under each concept are performance objectives (POs) that more specifically delineate the ideas to be taught and learned.

## Strand 1: Creativity and Innovation

This strand requires that students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.

- **Concept 1: Knowledge and Ideas**  
Use technology to generate knowledge and new ideas.
- **Concept 2: Models and Simulations**  
Use digital models and simulations to examine real-world connections, explore complex systems and issues, and enhance understanding.
- **Concept 3: Trends and Possibilities**  
Use technology to forecast trends and possibilities.
- **Concept 4: Original Works**  
Use technology to create original works in innovative ways.

## Strand 2: Communication and Collaboration

This strand requires students to use digital media and environments to communicate and collaborate with others.

- **Concept 1: Effective Communications and Digital Interactions**  
Communicate and collaborate with others employing a variety of digital environments and media.
- **Concept 2: Digital Solutions**  
Contribute to project teams to produce original works or solve problems.
- **Concept 3: Global Connections**  
Create cultural understanding and global awareness by interacting with learners of other cultures.

## Strand 3: Research and Information Literacy

This strand requires that students apply digital tools to gather, evaluate, and use information.

- **Concept 1: Planning**  
Plan strategies to guide inquiry.
- **Concept 2: Processing**  
Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.

## Strand 4: Critical Thinking, Problem Solving, and Decision Making

This strand requires students to use critical thinking, problem-solving, and decision making to manage projects using digital tools and resources.

- **Concept 1: Investigation**  
Identify and define authentic problems and significant questions for investigations.
- **Concept 2: Exploring Solutions**  
Plan and manage activities to develop solutions to answer a question or complete a project.

## Strand 5: Digital Citizenship

This strand requires students to understand human, cultural, and societal issues related to technology practice and ethical behavior.

- **Concept 1: Safety and Ethics**  
Advocate and practice safe, legal, and responsible use of information and technology.
- **Concept 2: Leadership for Digital Citizenship**  
Demonstrate leadership for digital citizenship.
- **Concept 3: Impact of Technology**  
Develop an understanding of the cultural, historical, economic and political impact of technology on individuals and society.

## Strand 6: Technology Operations and Concepts

This strand requires students to demonstrate a sound understanding of technology concepts, systems, and operations.

- **Concept 1: Understanding**  
Recognize, define and use technology processes, systems, and applications.
- **Concept 2: Applications**  
Select and use applications effectively and productively.
- **Concept 3: Problem Solving**  
Define problems and investigate solutions in systems and processes.
- **Concept 4: Transfer of Knowledge**  
Transfer current knowledge to learning of new technologies.