

TECHNOLOGY STANDARDS Grades 1-5

STANDARDS	GRADE 1-5 LEARNING EXPECTATIONS	
Standard 1: Creativity and Innovation - use knowledge, skills and techniques to create products/solutions of appropriate quality	Concepts and Skills—Big Ideas: Use model technologies to create a product for a selected purpose.	
	Prepared Graduate Competency: Demonstrates creative thinking, construct knowledge, and develop innovative products and processes using technology.	Evidence Outcomes:
		Use a limited range of software to present information
		Create presentations for a specific purpose
		Combine text and images in different software applications
		Create a simple spreadsheet using basic formulae
		Use digital tools to show creativity
Standard 2: Communication and Collaboration—use technology effectively as a means to access, process, communicate and solve problems	Concepts and Skills—Big Ideas: Be familiar with a range of media to communicate collaboratively with others.	
	Prepared Graduate Competency: Use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.	Evidence Outcomes:
		Use electronic tools to share information
		Conduct research on a given task and provide evidence
		Work with others on a task and be able to identify the roles of group members
		Use electronic learning tools to develop or improve core IT skills
		Access electronic information and use this in different ways to solve problems

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Standard 3: Digital Literacy-research, investigation, filtering, and academic honesty	Concepts and Skills—Big Ideas: Research for a specified purpose and acknowledge sources.	
	Prepared Graduate Competency: Apply digital tools to gather, evaluate, analyze, interpret and use information effectively for specific purposes.	Evidence Outcomes:
		Complete searches using different search engines and internet browsers
		Combine information from different sites and sources to complete tasks
		Identify and show sources of information
		Adapt information from the internet for your own purpose
		Demonstrate an understanding that all information on the internet may not be reliable
		Identify issues surrounding information on the internet including validity and accuracy
Standard 4: Creative and Confident Output- critical thinking, problem solving, decision making and original production	Concepts and Skills—Big Ideas: Locate, review and explore solutions to technological problems.	
	Prepared Graduate Competency: Creatively approach challenges via critical thinking, problem solving, and informed decisions using appropriate digital tools and resources.	Evidence Outcomes:
		Demonstrate a basic understanding of how technology is used to solve problems
		Identify a simple problem that technology could help to solve
		Create a plan to solve a simple problem
		Create instructions to solve a problem
		Demonstrate an understanding of why planning is important
		Conduct some research to help solve a problem
		Identify problems in collecting and using data
		Identify how different types of questions can be used to collect data

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Standard 5: Global Digital Citizenship- develop respect for others' viewpoints and appreciate alternative views	Concepts and Skills—Big Ideas: Awareness of cultural differences and similarities when using technology in a global context.	
	Prepared Graduate Competency: Understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.	Evidence Outcomes:
		Describe uses of technologies both inside and outside of school
		Identify the way technology is used in society
		Show some ways how technology has changed
		Demonstrate safe use of technology
		Understand the importance of staying safe online and possible risks
		Identify ways that technology may change in the future
Standard 6: Technological Operations - knowledge and understanding of systems and the design process system	Concepts and Skills—Big Ideas: Be able to use an input-output model to perform basic technological tasks.	
	Prepared Graduate Competency: Demonstrate a sound understanding of technological systems and operations.	Evidence Outcomes:
		Use a range of basic computer tools in an appropriate way
		Create, open and save files in a range of formats to different folder locations
		Demonstrate awareness of alternatives to using technology
		Be able to complete basic functions in a range of technologies
		Demonstrate safe and considerate use of technology
		Complete simple programming tasks
		Have an awareness of the design cycle.

Adapted from these sources: ISTE NETS Standards (2007) <http://www.iste.org/standards/nets-for-students/nets-student-standards-2007>, Australian Technology Curriculum (2012) http://www.acara.edu.au/verve/_resources/Draft_Shape_of_the_Australian_Curriculum_Technologies_paper_-_March_2012.pdf, Arizona Technology Standards (2009), <http://www.azed.gov/standards-practices/2009-technology-standard/>, MYP Technology Assessment Generic Rubrics, UK National Curriculum Standards