

21st Century Learning Educational Technology Standard Catalina Foothills School District Grades 9-12

A 21st Century Learning Community

1 Century Lear	1 st Century Learning Community		
1. CREATIVITY AND INNOVATION			
Knowledge and Ideas			
• 1	Models and Simulations		
•	Trends and Possibilities		
ORIGINAL WORKS			
ET9-12.1.1	Analyzes, evaluates, and synthesizes information to generate new ideas, processes, or products.		
ET9-12.1.2	Predicts and tests the relationships amongst interdependent elements of a digital model,		
213 12.1.2	simulation or system.		
ET9-12.1.3	Proposes or creates a model, simulation, or system.		
ET9-12.1.4	Predicts how one system operates by comparing it to multiple systems, digital models or simulations.		
ET9-12.1.5	Analyzes patterns and trends and their logical links to form inferences, and forecast possibilities providing novel insights.		
ET9-12.1.6	Creates innovative products or projects using digital tools to express original ideas.		
ET9-12.1.7	Uses digital collaborative tools to synthesize information, produce original works, and express ideas.		
2. COMMUNIC	CATION AND COLLABORATION		
• [EFFECTIVE COMMUNICATION AND DIGITAL INTERACTIONS		
• 1	DIGITAL SOLUTIONS		
• (GLOBAL CONNECTIONS		
ET9-12.2.1	Collaborates with peers, experts, or others in the global community employing a variety of digital tools to share findings and/or publish in a variety of ways.		
ET9-12.2.2	Communicates information and ideas respectfully and effectively to multiple audiences using a variety of digital environments.		
ET9-12.2.3	Communicates and collaborates for the purpose of producing original works or solving problems.		
ET9-12.2.4	Engages in a global community to contribute to a specific global issue.		
3. RESEARCH AND INFORMATION LITERACY			
PLANNING			
PROCESSING			
	Identifies and defends effective key words, phrases, and strategies for conducting information		
	searches.		
ET9-12.3.2	Evaluates diverse information sources.		
ET9-12.3.3	Locates and synthesizes information utilizing advanced search strategies including a variety of		
	search engines, metadata search engines, deep web searches and databases.		
ET9-12.3.4	Defends the authority of primary and/or secondary sources used in research.		
ET9-12.3.5	Evaluates information identifying facts, opinions, bias, inaccurate and misleading information		
	by analyzing multiple sources.		
ET9-12.3.6	Synthesizes research information to create new understanding and innovative solutions.		
ET9-12.3.7	Applies ethical use of information and media by respecting the principles of copyrights, intellectual freedom and property rights, using information and media technology		
	responsibly, and citing resources appropriately.		

4. CRITICAL THINKING, PROBLEM SOLVING AND DECISION MAKING			
INVESTIGATION			
EXPLORING SOLUTIONS			
ET9-12.4.1	Writes essential questions to investigate a complex (multi-step) issue using digital tools		
	and resources.		
ET9-12.4.2	Plans and manages an individual learning project that collects multiple data sets from		
	diverse sources, creating planning adjustments and course corrections from the knowledge		
	gained.		
ET9-12.4.3	Presents defendable solutions and makes decisions from multiple perspectives using collected resources and data.		
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DIGITAL CITIZENSHIP SAFETY AND ETHICS			
	ADERSHIP FOR DIGITAL CITIZENSHIP		
IMPACT OF TECHNOLOGY			
ET9-12.5.1	Determines when it is appropriate and safe to use various personal digital devices.		
ET9-12.5.2	Describes strategies to deal with cyber-bullying situations.		
ET9-12.5.3	Advocates and practices safe, legal, and responsible use of digital tools as defined by		
	school board policy and procedures.		
ET9-12.5.4	Demonstrates safe online communication practices regarding personal information.		
ET9-12.5.5	Analyzes and compares how web advertising influences consumer choices.		
ET9-12.5.6	Advocates and exhibits legal and ethical behavior when using technology.		
ET9-12.5.7	Exhibits digital citizenship by consistently leading by example and advocating social and		
	civic responsibility to others.		
ET9-12.5.8	Develops a possible technological solution for a contemporary issue.		
6. TECHNOLOG	6. TECHNOLOGY OPERATIONS AND CONCEPTS		
• U	NDERSTANDING		
	PPLICATIONS		
	ROBLEM SOLVING		
	RANSFER OF KNOWLEDGE		
ET9-12.6.1	Describes how the components of a system are integrated using appropriate terminology.		
ET9-12.6.2	Defines and applies knowledge of various technical process terms.		
ET9-12.6.3	Chooses technology applications appropriate for the audience and task.		
ET9-12.6.4	Recognizes and demonstrates ergonomically safe and sound use of equipment.		
ET9-12.6.5	Investigates and evaluates physical risks of using digital technology.		
ET9-12.6.6	Demonstrates speed and accuracy using appropriate data entry tools.		
ET9-12.6.7	Composes a multiple section document that applies the most appropriate media and		
FTO 12 C 0	advanced formatting.		
ET9-12.6.8	Uses spreadsheets to calculate, graph, organize, and present data in a variety of real-world		
ET9-12.6.9	settings. Uses database features to export, organize, compile, and output data.		
ET9-12.6.9 ET9-12.6.10	Composes media for the web with interactive capabilities.		
ET9-12.6.10 ET9-12.6.11	Creates, evaluates and critiques web structure and content.		
ET9-12.6.11	Uses network protocols for moving files and secure web access.		
ET9-12.6.13	Identifies and uses online help and other support to learn about features of hardware,		
213 12.0.13	software, and connectivity as well as to assess and resolve problems.		
ET9-12.6.14	Transfers understanding of current technologies to new and novel learning situations.		
2.0.14	Transfers and statements of current technologies to new and novel learning situations.		