21st Century Learning Educational Technology Standard
Catalina Foothills School District
Grade 8

A 21st Century Learning Community

1. CREATIVITY AND INNOVATION	
• KNOWLEDGE AND IDEAS	
• MODELS AND SIMULATIONS	
• TRENDS AND POSSIBILITIES	
• ORIGINAL WORKS	
ET8.1.1	Analyzes and evaluates information to generate new ideas, processes or products.
ET8.1.2	Summarize the relationship amongst interdependent elements of a digital model or simulation.
ET8.1.3	Analyzes system processes and outcomes using models or simulations.
ET8.1.4	Analyzes and applies understanding of how one system, digital models or simulations operates by comparing it to another system of a different type that operates in a similar manner.
ET8.1.5	Identifies patterns and trends to forecast possibilities from different perspectives.
ET8.1.6	Asks questions and investigates a problem from different perspectives and formulate inferences from known facts.
ET8.1.7	Draws conclusions that reflect clear and logical links between the trends and patterns and the interpretations made from them.
ET8.1.8	Creates innovative products or projects using digital tools to express original ideas.
ET8.1.9	Uses digital tools to collaborate with a group to communicate original ideas, products, or projects effectively in a creative or innovative style.
2. COMMUNICATION AND COLLABORATION	
• EFFECTIVE COMMUNICATION AND DIGITAL INTERACTIONS	
• DIGITAL SOLUTIONS	
• GLOBAL CONNECTIONS	
ET8.2.1	Collaborates and communicates with peers, experts, or others employing a variety of digital tools to share findings and/or publish.
ET8.2.2	Explain and demonstrates features, conventions, voice, and etiquette of interactive digital environments to communicate with an appropriate audience.
ET8.2.3	Communicates and collaborates for the purpose of producing original works or solving problems.
ET8.2.4	Independently locates and interacts with teacher approved global communities.
3. RESEARCH AND INFORMATION LITERACY	
• PLANNING	
• PROCESSING	
ET8.3.1	Predicts the most effective keywords and phrases for use in information searches.
ET8.3.2	Determines which information source will provide the desired data.
ET8.3.3	Locates and synthesizes information utilizing advanced search strategies.
ET8.3.4	Evaluates and uses authoritative primary and/or secondary sources.
ET8.3.5	Evaluates between fact and opinion, bias, inaccurate and misleading information by consulting multiple sources.
ET8.3.6	Synthesizes research information to create new understanding.
ET8.3.7	Applies ethical use of information and media by respecting copyrights, intellectual property rights, using information and media responsibly, and citing resources appropriately.

4. CRITICAL THINKING, PROBLEM SOLVING AND DECISION MAKING	
• INVESTIGATION	
• EXPLORING SOLUTIONS	
ET8.4.1	Writes essential questions to investigate a topic or issue using digital tools and resources.
ET8.4.2	Plans, conducts and manages research using appropriate digital resources to develop solutions for a question.
ET8.4.3	Presents defendable solutions and make decisions from multiple perspectives using collected resources and data.
5. DIGITAL CITIZENSHIP	
• SAFETY AND ETHICS	
• LEADERSHIP FOR DIGITAL CITIZENSHIP	
• IMPACT OF TECHNOLOGY	
ET8.5.1	Assesses situations in which it is appropriate and safe to use a personal digital device in the home, school, community, and in the work place.
ET8.5.2	Describes strategies to deal with cyber-bullying situations.
ET8.5.3	Articulates and practices the school and district rules governing the use of digital tools as defined by school board policy and procedures.
ET8.5.4	Demonstrates safe online communication practices regarding personal information.
ET8.5.5	Analyzes and compares various aspects of e-commerce.
ET8.5.6	Exhibits legal and ethical behavior when using technology.
ET8.5.7	Promotes digital citizenship by consistently leading by example and advocating social and civic responsibility to others.
ET8.5.8	Analyzes current economic, environmental, health, political, scientific, or social problems that have technological solutions and propose potential solutions for the problems.
6. TECHNOLOGY OPERATIONS AND CONCEPTS	
• UNDERSTANDING	
• APPLICATIONS	
• PROBLEM SOLVING	
• TRANSFER OF KNOWLEDGE	
ET8.6.1	Explains how systems are integrated detailing input, output, and network devices.
ET8.6.2	Defines and applies knowledge of various technical process terms.
ET8.6.3	Chooses technology applications appropriate for the audience and task.
ET8.6.4	Recognizes and demonstrates ergonomically safe and sound use of equipment.
ET8.6.5	Analyzes and evaluates physical risks of using digital technology.
ET8.6.6	Demonstrates speed and accuracy with appropriate data entry tools with at least 30 wpm and 80% accuracy.
ET8.6.7	Composes a multiple section document using advanced formatting.
ET8.6.8	Applies formatting features while using spreadsheet programs to customize tables, charts, and graphs.
ET8.6.9	Creates a simple database for a content area.
ET8.6.10	Creates and edits visual and audio material to generate a stand-alone multimedia product.
ET8.6.11	Identifies criteria for evaluating technical and design qualities of a web site and then create web-based content from the identified criteria.
ET8.6.12	Identifies and use network protocols for moving files and secure web access.
ET8.6.13	Generates and applies solutions to troubleshoot hardware and software issues and problems.
ET8.6.14	Transfers understanding of current technologies to new and novel learning situations.