

# Ganado Unified School District

Grade: 2<sup>nd</sup> Grade

## COMPUTERS

### PACING Guide SY 2016-2017

Timeline & Resources	AZ College and Career Readiness Standard	Essential Question (HESS Matrix)	Learning Goal	Vocabulary (Content / Academic)
	<b>Technology</b>		<b>I will...</b>	
1 <sup>st</sup> Quarter	<p><u>Strand 1: Creativity and Innovation</u>            Concept 3: Trends and Possibilities            Use technology to forecast trends and possibilities.            PO 1. Examine patterns to identify trends.</p> <p><u>Strand 2: Communication and Collaboration</u>            Concept 1: Effective Communications and Digital Interactions            Communicate and collaborate with others employing a variety of digital environments and media.            PO 1. Communicate with others as a whole class or small group using digital tools.            PO 2. Identify and demonstrate safe and appropriate behavior when using digital environments to communicate with others.</p> <p><u>Strand 5: Digital Citizenship</u>            Concept 1: Safety Ethics            Advocate and practice safe, legal, and responsible use of information and technology.            PO 1. Recognize and discuss when it is appropriate to use a personal digital device.            PO 2. Identify cyber-bullying and discuss the effects of bullying on an individual.            PO 3. Identify and articulate rules for the use of digital tools as defined by school board policy and procedures.            PO 4. Identify and discuss ways to stay safe on the Internet.            PO 5. Discuss and demonstrate appropriate behavior for technology use and show respect for technology equipment.</p> <p>Concept 3: Impact of Technology            Develop an understanding of the cultural, historical, economic and political impact of technology on individuals and society.            PO 1. Recognize, discuss, and explain different types of technologies used in current and past cultures.</p>	<p>What are some of the problems we encounter with technology?</p> <p>How does technology affect our daily lives?</p> <p>What technology is helpful to our daily life?</p>	<p>Use technology to forecast trends and possibilities.</p> <p>Examine patterns to identify trends.</p> <p>Communicate and collaborate with other employing a variety of digital environments and media.</p> <p>Communicate with others as a whole class or small group using digital tools.</p> <p>Identify and demonstrate safe and appropriate behavior when using digital environments to communicate with others.</p> <p>Recognize and discuss when it is appropriate to use a personal digital device.</p> <p>Identify cyber-bullying and discuss the effects of bullying on an individual.</p> <p>Identify and articulate rules for the use of digital tools as defined by school board policy and procedures.</p> <p>Identify and discuss ways to stay safe on the Internet.</p> <p>Discuss and demonstrate appropriate behavior for technology use and show respect for technology equipment.</p> <p>Develop an understanding of the cultural, historical, economic and political impact of technology on individuals and society.</p>	<p>Technology</p> <p>Forecast</p> <p>Trends</p> <p>Possibilities</p> <p>Patterns</p> <p>Communicate</p> <p>Collaborate</p> <p>Employing</p> <p>Variety</p> <p>Digital</p> <p>Environments</p> <p>Media</p> <p>Tools</p> <p>Safe</p> <p>Appropriate</p> <p>Device</p> <p>Cyber-bullying</p> <p>Internet</p> <p>Cultural</p> <p>Historical</p> <p>Economic</p> <p>Political</p> <p>Impact</p> <p>Individuals</p> <p>Society</p> <p>Ergonomics</p> <p>Formatting</p> <p>Spreadsheets</p> <p>Multimedia</p> <p>Modules</p> <p>Web page</p> <p>Log-in</p>

	<p><u>Strand 6:</u> Technology Operations and Concepts          Concept 1: Understanding          Recognize, define and use technology terms, processes, systems and applications.          PO 1. Classify basic technology terms.          PO 2. Apply knowledge of technology process terminology.          PO 3. Identify and explain terms and concepts related to spreadsheets while using program to complete a given task.          PO 4. Explain that computers can store and organize information so that it can be searched.          PO 5. Create and edit multimedia presentation using painting/drawing.          PO 6. Identify components and modules on a web page.          PO 7. Demonstrate appropriate use of log-in procedures and network printing.</p>		<p>Recognize, discuss, and explain different types of technologies used in current and past cultures.</p> <p>Classify basic technology terms.</p> <p>Apply knowledge of technology process terminology.</p> <p>Identify and choose technology applications for a given activity/project.</p> <p>Demonstrate knowledge of ergonomics and electrical safety when using computers.</p> <p>Understand keyboarding techniques when using the keyboard to type letters, numbers and special key functions.</p> <p>Compose a document that applies basic formatting.</p> <p>Identify and explain terms and concepts related to spreadsheets while using program to complete a given task.</p> <p>Explain that computers can store and organize information so that it can be searched.</p> <p>Create and edit multimedia presentation using painting/drawing applications.</p> <p>Identify components and modules on a web page.</p> <p>Demonstrate appropriate use of log-in procedures and network printing.</p>	<p>Username          Password</p> <p>BASIC          TECHNOLOGY          TERMS:          Hardware          CPU          Disk Drive          Hard Drive          Keyboard          Modem          Monitor          Mouse          Printer          Software          Applications          Boot          Browser          Byte          Click          Double Click          Download          Drag          File          Folder          Gigabyte          Icon          Internet          IP Number          Kilobyte          Megabyte          Memory          Menu          Scroll Bar          Spreadsheet          Tool Bar          URL          Window          Word Processor</p>
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<p>2<sup>nd</sup> Quarter</p>	<p><u>Strand 1: Creativity and Innovation</u>  <u>Concept 2: Models and Simulations</u>          Use digital models and simulations to examine real-world connections, explore complex systems and issues, and enhance understanding.          PO 1. Identify elements of a digital model or simulation.          PO 2. Identify and describe how aspects of a situation change using models or simulations.          PO 3. Describe how one system operates by comparing it to another system.          Concept 4: Original Works          Use technology to create original works in innovative ways.</p> <p><u>Strand 2: Communication and Collaboration</u>  <u>Concept 2: Digital Solutions</u>          Contribute to project teams to produce original works or solve problems.          PO 1. Identify and apply cooperative group rules to effectively collaborate in a classroom digital learning project.</p> <p><u>Strand 4: Critical Thinking, Problem Solving and Decision Making</u>  <u>Concept 2: Exploring Solutions</u>          Plan and manage activities to develop solutions to answer a question or complete a project.          PO 1. Participate as a group to manage a learning project and identify sources.          PO 2. Propose solutions by discussing data collected to answer a question.          PO 4. Sort information into major topics and create a list of ideas.          PO 5. Identify and follow legal and ethical behaviors during research and cite resources appropriately.</p>	<p>What are the advantages of using certain technologies?</p> <p>How do you use technology to communicate information and/or ideas?</p> <p>How do we select resources?</p> <p>How do we make new meaning out of information from many sources?</p>	<p>Use digital models and simulations to examine real-world connections, explore complex systems and issues, and enhance understanding.</p> <p>Identify elements of a digital model or simulation.</p> <p>Identify and describe how aspects of a situation change using models or simulations.</p> <p>Describe how one system operates by comparing it to another system.</p> <p>Use technology to create original works in innovative ways.</p> <p>Identify and apply cooperative group rules to effectively collaborate in a classroom digital learning project.</p> <p>Plan and manage activities to develop solutions to answer a question or complete a project.</p> <p>Participate as group to manage a learning project and identify sources.</p> <p>Propose solutions by discussing data collected to answer a question.</p> <p>Sort information into major topics and create a list of ideas.</p> <p>Identify and follow legal and ethical behaviors during research and cite resources appropriately.</p>	<p>Models          Simulations          Real-world          Connections          Complex          Systems          Original          Innovative          Cooperative          Collaborate          Plan          Manage          Solutions          Project          Sources          Propose          Data          Collection          Sort          Information          Major topics          Legal          Ethical          Research          Cite          Resources</p>
<p>3<sup>rd</sup> Quarter</p>	<p><u>Strand 2: Communication and Collaboration</u>  <u>Concept 3: Create cultural understanding and global awareness by interacting with learners of other cultures.</u>          PO 1. Identify challenges and digital strategies as a class to effectively communicate with other cultures.</p> <p><u>Strand 4: Critical Thinking, Problem Solving and Decision Making</u>  <u>Concept 1: Investigation</u>          Identify and define authentic problems and significant questions for investigation.          PO 1. Identify an authentic issue and collaborate as a class to define an essential question using digital tools and resources.</p>	<p>Who owns ideas and information?</p> <p>How can we share ideas and information fairly?</p> <p>How are ownership rights protected?</p>	<p>Create cultural understanding and global awareness by interacting with learners of other cultures.</p> <p>Identify challenges and digital strategies as a class to effectively communicate with other cultures.</p> <p>Identify and define authentic problems and significant questions for investigation.</p> <p>Identify an authentic issue and collaborate as a class to define an essential question using digital tools and resources.</p>	<p>Create          Cultural          Understanding          Global          Awareness          Interacting          Learners          Cultures          Identify          Challenges          Strategies          Effectively          Communicate          Define          Authentic          Problems</p>

				<p>Significant Investigation Collaborate Essential Question Digital tools Resources</p>
4 <sup>th</sup> Quarter	<p><u>Strand 3: Research and Information Literacy</u>            Concept 1: Planning            Plan strategies to guide inquiry using technology.            PO 1. Generate key words and synonyms from a posed question for a search.            PO 2. Differentiate types of information and online sources.            Concept 2: Processing            Locate, organize, analyze, evaluate, synthesize and ethically use information from a variety of sources and media.            PO 1. Conduct a search using keywords to narrow or broaden a search.            PO 2. Use primary and secondary sources.            PO 3. Differentiate between a fact, untruth, and an opinion.</p> <p><u>Strand 6: Technology Operations and Concepts</u>            Concept 3: Troubleshoot Systems and Processes            Define problems and investigates solutions in systems and processes.            PO 1. Identify and apply successful troubleshooting strategies for minor hardware and software issues/problems.            Concept 4: Transfer of Knowledge            Transfer current knowledge to learning of new technologies.            PO 1. Transfer understanding of current symbols and icons to learning new technologies.</p>	<p>How do we find information to answer our questions?</p> <p>How are problem-solving and research alike?</p> <p>How is a research question better than a research topic?</p> <p>What are the steps in successful information problem-solving process?</p> <p>How do we know we do a good job?</p> <p>How can we improve our work?</p> <p>How do we recognize good information?</p>	<p>Generate key words and synonyms from a posed question for a search.</p> <p>Locate, organize, analyze, evaluate, synthesize and ethically use information from a variety of sources and media.</p> <p>Conduct a search using keywords to narrow or broaden a search.</p> <p>Use primary and secondary sources.</p> <p>Differentiate between a fact, untruth, and an opinion.</p> <p>Define problems and investigates solutions in systems and processes.</p> <p>Identify and apply successful troubleshooting strategies for minor hardware and software issues/problems.</p> <p>Transfer understanding of current symbols and icons to learning new technologies.</p>	<p>Generate Keywords Synonyms Posed questions Search Locate Organize Analyze Evaluate Synthesize Ethically Information Variety Sources Media Conduct Narrow Broaden Primary Secondary Differentiate Fact Untruth Opinion Define Problem Investigate Solutions Systems Processes Identify Apply Successful Troubleshooting Strategies Minor Hardware Software</p>

				Issues/problems Transfer Understanding Current Symbols Icons
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