Ganado Unified School District #20 (Computers for 3rd, 4th, & 5th Grade)

PACING Guide SY 2022-2023

Resources	AZ College and Career Readiness Standard	Essential Question (HESS Matrix)	Learning Goal	Vocabulary (Content/Academic)
		First Quarter		
-Online Resources • Netsmartzkids.org • Code.org • Typing.com -Internet access -Printer/Copier -USB Drive	Strand 5: Digital Citizenship *POs determined by Grade Levels CONCEPT 1: Safety and Ethics: Advocate and practice safe, legal, and responsible use of information and technology. PO 1: Explain when and why it is appropriate to use a personal digital device. PO 2: Describe cyber-bullying and describe strategies to deal with such a situation. PO 3: Identify and articulate rules for the use of digital tools as defined by school board policy and procedures. PO 4: Recognize and describe the potential risks and dangers associated with various forms of online communications. PO 5: Recognize and describe the advantages and risks of making a personal spending choice online. PO 6: Articulate how to respect the privacy of others' information and digital workspace.	How can we demonstrate appropriate use of digital tools? What is one example of cyber-bullying and explain a positive solution to the situation? Describe the risks and dangers of various forms of online communication or online purchasing.	Students will be able to: Identify the proper use of digital devices, including how, when, and where a personal digital device (iPod, cell phone, PDA, etc.) should be used. Identify and express the policies presented in the District's Acceptable Usage Policy. Explain the consequences of inappropriate use of technology. Discuss cyber-bullying and brainstorm possible solutions Recognize and describe the potential risks and dangers associated with various forms of online communications.	Authority Concept mapping tool Cyber Cyber-bullying Digital Digital citizenship Digital environments Digital tools Identity theft Fair use Personal digital device Publish Etiquette Netiquette

CONCEPT 2: Leadership for Digital Citizenship: Demonstrate leadership for digital citizenship. PO 1. Exhibit digital citizenship by consistently leading by example and advocating social and civic responsibility to others. Strand 2: Communication and Collaboration *POs determined by Grade Levels CONCEPT 1: Effective Communications and Digital Interactions: Communicate and collaborate with others employing a variety of digital environments and media. PO 2. Explain and demonstrate the safety and etiquette of digital environments to communicate with intended audiences.	THINKING. EDMANUNICATION SELP IS SOCIAL	 Identify acceptable and unacceptable uses of computers in society. Demonstrate an understanding of digital citizenship by sharing the information with peers individually and in groups. Research a current technology and produce a digital document (report, brochures, video, etc.) explaining the potential use of the technology to solve a current issue in our society. 	
Strand 6: Technology Operations and Concepts *POs determined by Grade Levels CONCEPT 1: Understanding: Recognize, define, and use technology term, processes, systems, and applications. PO 1. Describe the various technical system terms. PO 2. Define and apply knowledge of various technical process terms.	What are the causes and effects of using digital technology?	Students will able to: Identify and define parts of the computer and network folders. Describe the correct posture, position of hands and feet, proper height of keyboard, proper lifting and moving of equipment.	Component Device Digital Directory Document Ergonomic Hard drive Hardware Icon

PO 4. Recognize and demonstrate ergonomically safe and sound use of equipment. PO 5. Identify physical risks of using digital technology. CONCEPT 2: Application: Select and use applications effectively and productively. PO 1: Demonstrate speed and accuracy in use of keyboard and data entry tools with at least: 5 wpm and 80% accuracy (3 rd grade) 10 wpm and 80% accuracy (4 th grade) 15 wpm and 80% accuracy (5 th grade)	What are the differences between proper keyboarding techniques and poor keyboarding techniques?	 Demonstrate proper keyboarding techniques, assess keyboard accuracy, and develop speed. Apply basic operations of hardware and software processes to a new Operating System. 	Input device Interactive white board Media Net speed Output device Qwerty keyboard Server Toolbar Wi-Fi WPM (Words Per Minute)
CONCEPT 4: Transfer of Knowledge: Transfer current knowledge to learning of new technologies. PO 1. Transfer understanding of current input/output devices, symbols and icons, and applications to learning new technologies.	SELF & BOCIAL AWARENESS	C NITE E II	

Second Quarter Strand 1: Creativity and QUARTER 2: Innovation *POs determined by Grade Levels -Online Resources Netsmartzkids.org **CONCEPT 1: Knowledge and Ideas:** Use Evaluate technology, how did Students will be able to: Differences Code.org technology to generate knowledge and it change the way we Create with technology Graphic organizer Typing.com new ideas. communicate? through free computer Similarities -Internet access science clubs (www.cs-**Essential questions PO 1.** Analyze information to generate -Printer/Copier Digital tools THENDUNIS. first.com). ideas and processes. -USB Drive Use Scratch to create stories, games, and **CONCEPT 2: Models and Simulations:** Use -Email animations and share with technology to generate knowledge and -Skype others around the world. -Chat new ideas. -Digital camera Compare and contrast PO 2. Explore and experiment with systems, using digital system variables using models or tools, to identify simulations. PO 3. Transfer understanding of how one similarities and differences. system operates by comparing it to another system. **CONCEPT 4: Original Works**: Use Create original works of technology to create original works in SELF & BOCIAL personal or group innovative ways. BUND REWESS expression using digital tools. **PO 1.** Analyze information using digital creativity tools to create original works and express ideas. **PO 2.** Analyze information using digital collaborative tools to produce original works and express ideas.

Standard 4: Critical Thinking, Problem Solving, and Decision Making *POs determined by Grade Levels CONCEPT 1: Investigation: Identify and define authentic problems and significant questions for investigation. PO 1. Write essential questions to investigate a topic or issue using digital tools and resources. CONCEPT 2: Exploring Solutions: Plan and manage activities to develop solutions to answer a question or complete a project. PO 1. Plan and manage research using credible digital resources to develop solutions to answer a question. PO 2. Generate solutions from different perspectives using collected resources and data.	How are games created?	Students will be able to: • Use the Code.org Program to follow directions and problem solve to create games using code.	Algorithm Bug Debugging Program Programming Loop Repeat Event Condition Conditionals Binary
*POs determined by Grade Levels *CONCEPT 1: Effective Communications and Digital Interactions: Communicate and collaborate with others employing a variety of digital environments and media. PO 1. Communicate digitally with others by selecting and using a variety of appropriate communication tools.	SELP IS BOTIAL AWARENESS	Students will able to: Identify communication technologies and how they can be used to promote collaboration between peers and colleagues. Observes teacher use of email to safely and securely collect information or share ideas with others. Locate, select, and use various media to be used	Blog Bluetooth Chat Collaborative tools Digital image/graphic Digital storytelling Digital video Drawing tool Global community Mobile device Netiquette Network Online community Personal digital device Podcast

CONCEPT 2: Digital Solutions: Contribute to project teams to produce original works or solve problems. PO 1. Contribute to a cooperative learning project and demonstrate effective group behaviors while using digital collaborative resources. CONCEPT 3: Global Connections: Create cultural understanding and global awareness by interacting with learners of other cultures. PO 1. Communicate with individuals from different cultures or geographic areas to explore a variety of perspectives.	THINNING. COMMUNICATION SELF & BOCIAL AWARENESS	to communicate (e.g. text, images, audio, and video) Identify the best tool to communicate a concept, idea, or information Podcasting Email Chat Describe the proper netiquette with digital environments. Use of Academic language in a professional environment (ex. Email) Use of casual language with social network (ex. FaceBook, MySpace) Texting using emoticons or "internet slang" (ex. LOL) Collaborate as a group to solve a puzzle using a communication tool	Social media Social networking Texting or text message Upload
Strand 6: Technology Operations and Concepts *POs determined by Grade Levels CONCEPT 1: Understanding: Recognize, define, and use technology term, processes, systems, and applications. PO 3. Choose technology applications for a given activity/project.	Judge and rate your ability to compose a document; use intermediate formatting; and save and print a document.	Students will be able to:	Clip art File extension (.doc, .ppt, .jpg, .pdf) Flash drive or USB Formatting Troubleshooting

Format: **CONCEPT 2: Application:** Select and use 0 Font applications effectively and productively. Font Size Text Color **PO 1.** Demonstrate speed and accuracy in Bold, Italic, use of keyboard and data entry tools with Underline at least: Alignment of Text 5 wpm and 80% accuracy (3rd grade) Left 0 10 wpm and 80% accuracy (4th grade) Right 15 wpm and 80% accuracy (5th grade) Center **PO 2**. Compose a document that applies Justified intermediate formatting. Insert Clip Art THENDUM **PO 6**. Use interactive web content to Demonstrate how to access, read, send, and receive troubleshoot computer information. problems such as: **PO 7**. Use network storage drives to Lost document, access information from a directory. connectivity problems, use 48660 technology **CONCEPT 3: Troubleshoot Systems** manuals of and Processes: Define problems and various tools investigates solutions in systems and (camera, iPad, processes. computer **PO 1**. Use the help function within software) to software and hardware to troubleshoot determine the issues and problems. order of SELF & BOCIAL sequence to solve BUND REWESS issues. Demonstrate proper keyboarding techniques, assess keyboard accuracy, and develop speed.

Third Quarter

QUARTER 3:

- -Online Resources
 - Netsmartzkids.org
 - Code.org
 - Typing.com
- -Internet access
- -Printer/Copier
- -USB Drive

Strand 3: Research and Information Literacy

*POs determined by Grade Levels

CONCEPT 1: Planning: Plan strategies to guide inquiry using technology.

PO 1. Predict and use key words and phrases that narrow or broaden information searches.

PO 2. Predict which information sources will provide the desired data.

CONCEPT 2: Processing: Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.

- **PO 1**. Locate and synthesize information to revise search strategies.
- **PO 2**. Select and use authoritative primary and/or secondary sources.
- **PO 3**. Evaluate between fact and opinion, bias, inaccurate and misleading information by consulting more than one source.
- **PO 4**. Use appropriate digital tools to synthesize research information and develop new ideas.
- **PO 5**. Follow copyright laws when using text, images, videos and/or other sources and obtain permission to use the work of others, and cite resources appropriately.

What are some good strategies for researching using the Internet?

How can we use our researching skills and apply it to real-life situations?

MIDITA SURVINIMENTAL

SELF & BOCIAL

BWARENESS

Students will be able to:

- Use a variety of resources found in a variety of formats (e.g. Internet, card catalog, CD-ROM, databases)
- Use a web browser to navigate the Internet using a child friendly search engine (e.g. forward, back, hyperlink, home, and favorites/bookmarks, refresh/reload).
 - Use a teacher prepared list of favorites/bookmarks or portals form a teacher web page to gather information
 - Use basic web browsing vocabulary (e.g. URL, hyperlink, favorites/ bookmarks, search box, and scroll bar).
 - Uses appropriate search strategies (identifying keywords for electronic searches and evaluating relevance, gathering techniques, sorting and reporting information strategies).
 - Explain resources selected for assigned task.

Application **Browser** Cookies Database Digital tools Download FAQ (Frequently Asked Questions) Firewall Hacking Homepage Hyperlink Identity theft Intellectual property (copyright) Intranet Link

Network Network storage devices

Media hosting

Password
Primary source
Search engine

Secondary source Spam

Spoofing URL

Virus Web browser

Web browser Webinar

Website Webpage

Wiki

World wide web (www.)

	A	THINKING.	 Evaluate Internet resources and check for accuracy, bias, and truth (e.g. blogs, wikis, forums) Develop an awareness of Internet resource evaluation (Cybersmart lesson) Identify the URL as a host of information of a domain (e.g. gov, .com, .edu, .org, .net, .tv) Locate the author/creator of a website to determine credibility of the information with assistance. 	
CON appl PO 1 use of at le 5 wg 10 w 15 w PO 5 with tran	Standard 6: Technology Operations and Concepts Is determined by Grade Levels INCEPT 2: Application: Select and use lications effectively and productively. I. Demonstrate speed and accuracy in of keyboard and data entry tools with east: Om and 80% accuracy (3rd grade) Veryon and 80% accuracy (4th grade) Veryon and 80% accuracy (5th grade) Veryon and 80% accuracy (5th grade) Solutions for individual assignments. T. Use network storage drives to access rmation from a directory.	How can we use technology to present what we have learned?	Students will be able to: Create, edit, and format a Power Point presentation for a given research project. Present their Power Point presentation to their class. Create, Open, Close, Save/Save As to USB/flash drive/external flash drive Students will be able to: Demonstrate proper keyboarding techniques, assess keyboard accuracy, and develop speed.	Formatting tools Multimedia presentation Presentation software

Standard 1: Creativity and Innovation Students will be able to: Collaborative tools *POs determined by Grade Levels Construct a timeline using Concept mapping tool MS Power Point. Digital models **CONCEPT 4: Original Works:** Use Use the Drawing and Paint Digital simulation technology to create original works in tools to illustrate a Original works innovative ways. character. Publishing Use a variety of digital Simulation **PO 1**. Analyze information using digital tools (drawing programs, creativity tools to create original works THEOLESIS audio clips, movies, and express ideas. brochures, newsletters, **PO 2.** Analyze information using digital podcast, web), to analyze collaborative tools to produce original information and create works and express ideas. original works. Create original works of personal or group expression using digital tools. BUND REWESS

Fourth Quarter				
QUARTER 4: -Online Resources • Netsmartzkids.org • Code.org • Typing.com -Internet access -Printer/Copier -USB Drive	Standard 6: Technology Operations and Concepts *POs determined by Grade Levels CONCEPT 2: Application: Select and use applications effectively and productively. PO 3. Apply spreadsheet formatting skills. PO 4. Perform simple operations in a database. PO 7. Use network storage drives to access information from a directory.	As a business owner, how can you keep track of your financial data? Demonstrate how you can visually present data.	Students will be able to: Create charts and graphs using specific data. Create a simple spreadsheet adding multiple cells using simple functions and manually writing formulas. Create, Open, Close, Save/Save As to USB/flash drive/external flash drive.	Cells Chart Data Database Formula Formula bar Graph Spreadsheet
	Standard 1: Creativity and Innovation *POs determined by Grade Levels CONCEPT 3: Trend and Possibilities: Use technology to forecast trends and possibilities. PO 1. Identify patterns and trends to draw conclusions and forecast possibilities.	SELP IN SIDEIAL AWARENESS	Students will be able to: Construct a survey to gather data using an interactive digital tool, then display results. Create a simple database from a template to organize, sort, and manage information with assistance. Use a variety of digital tools (drawing programs, audio clips, movies, brochures, newsletters, podcast, web), to analyze information and create original works.	Patterns Survey Trends

Standard 6: Technology Operations and Concepts

*POs determined by Grade Levels

<u>CONCEPT 2: Application</u>: Select and use applications effectively and productively.

PO 1. Demonstrate speed and accuracy in use of keyboard and data entry tools with at least:

RESPECTS

5 wpm and 80% accuracy (3rd grade) 10 wpm and 80% accuracy (4th grade) 15 wpm and 80% accuracy (5th grade) Students will be able to:

THENDUMS

SELF IS SOCIAL AWARENESS

 Demonstrate proper keyboarding techniques, assess keyboard accuracy, and develop speed.

