

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 1: Creativity and Innovation

This strand requires that students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.

Concept 1: Knowledge and Ideas

Use technology to generate knowledge and new ideas.

Performance Objectives	Curriculum Connections	Explanations and Examples
No Performance Objectives		

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 1: Creativity and Innovation

Concept 2: Models and Simulations

Use digital models and simulations to examine real-world connections, explore complex systems and issues, and enhance understanding.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Explore and identify models and simulations.</p>	<p>K.NBT.1 Compose and decompose numbers from 11 to 19 into ten ones and some further ones, e.g., by using objects or drawings, and record each composition or decomposition by a drawing or equation (such as $18 = 10 + 8$); understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.</p> <p>K.CC.2 Count forward beginning from a given number within the known sequence (instead of having to begin at 1).</p> <p>K.MD.3 Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. (Limit category counts to be less than or equal to 10.)</p>	<p>Explanation: Students will use online games/simulations and virtual field trips.</p> <p>Math Examples:</p> <ul style="list-style-type: none"> • PBS Kids counting games. Students will use online games/simulations to practice counting skills. Counting • In this unit, students make groups of 10 to 20 objects, connect number names to the groups, compose and decompose numbers, and use numerals to record the size of a group. Let's Count to 20 • Students sort objects and observe the properties others use for sorting. Finding Properties for Sorting • This lesson is sorting and looking for attributes. Begin With Buttons <p>Language Arts Examples: Using Personal Connections builds an understanding of emotions through</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples
	<p>MP.2 Reason abstractly and quantitatively.</p> <p>MP.3 Construct viable arguments and critique the reasoning of others.</p> <p>MP.4 Model with mathematics.</p> <p>K.SL.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.</p> <ul style="list-style-type: none"> a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion). b. Continue a conversation through multiple exchanges. <p>K.SL.6 Speak audibly and express thoughts, feelings, and ideas clearly.</p>	<p>using interactive Venn Diagrams for students to share happy and sad feelings.</p> <p>Using Personal Connections</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples

Strand 1: Creativity and Innovation

Concept 3: Trends and Possibilities

Use technology to forecast trends and possibilities.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Observe and extend patterns.</p>	<p>MP.2 Reason abstractly and quantitatively.</p> <p>MP.7 Look for and make use of structure.</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.CC.5 Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle; or as</p>	<p>Explanation: Use technology to make predictions and draw conclusions.</p> <p>Language Arts Examples:</p> <ul style="list-style-type: none"> • Kid Pix/Kidspiration-Using both programs students can use the stamp feature to create and extend an ABABAB pattern. • Have a students work in partner. One student creates a pattern. The other student finishes the pattern by first asking questions, to gather information and clarify details and then extending the pattern. • In this sequence of lessons, students represent patterns in different ways. They solve problems; make, explain, and defend conjectures; make generalizations; and extend and clarify their knowledge.

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples
	<p>many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.</p> <p>K.CC.6 Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies. (Include groups with up to ten objects.)</p> <p>K.OA.4 For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.</p>	<p style="text-align: center;">Calculating Patterns</p> <p>Math Examples:</p> <ul style="list-style-type: none"> • An interactive lesson for counting and adding. Five Frame • This lesson works on <, >, and = Fish Food to Pictures of Symbols • This lesson works on building numbers up to 10. Let's Count to 20

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 1: Creativity and Innovation

Concept 4: Original Works

Use technology to create original works in innovative ways.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Use digital creativity tools to develop ideas and create a project.</p>	<p>K.W.6 With guidance and support from adults, explore a variety of digital tools to produce and publish writing, including in collaboration with peers.</p> <p>K.SL.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.</p> <p style="padding-left: 20px;">a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion).</p> <p style="padding-left: 20px;">b. Continue a conversation through multiple exchanges.</p> <p>K.SL.5 Add drawings or other visual displays to descriptions as desired to provide additional detail.</p>	<p>Explanation: Organize ideas and design and produce multimedia projects.</p> <p>Examples: Students can use tools such as Pixie, PowerPoint, Kidpix or Kidspiration to stamp a picture of something and then write sentences to match. Example: Students draw a picture of a cactus, Cactus lives in the desert.</p> <p>Language Arts Examples: This lesson from Thinkfinity allows students to create a slide in a Power Point, sharing a picture of their favorite candy and then using the audio feature to describe their favorite candy via their senses. Using Sensory Details in Writing</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples
	K.SL.6 Speak audibly and express thoughts, feelings, and ideas clearly.	

DRAFT

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 2: Communication and Collaboration

This strand requires students to use digital media and environments to communicate and collaborate with others.

Concept 1: Effective Communications and Digital Interactions

Communicate and collaborate with others employing a variety of digital environments and media.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Communicate with others as a whole class using digital tools.</p>	<p>K.W.6 With guidance and support from adults, explore a variety of digital tools to produce and publish writing, including in collaboration with peers.</p> <p>K.SL.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.</p> <p>a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion).</p> <p>b. Continue a conversation through multiple exchanges.</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something</p>	<p>Explanation: Communicate with other students and other classes digitally.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Publish poetry on a wiki or blog to share with others. • Collaboration Sites WikiSpaces Edmodo <p>Language Arts Examples: Primary students work with intermediate students using an online tool to create a book. Book Buddy Biographies</p> <p>Math Examples: Many math standards could be covered by using an interactive whiteboard or a Paint program to compare, count, add and subtract.</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples
	<p>that is not understood.</p> <p>K.SL.6 Speak audibly and express thoughts, feelings, and ideas clearly.</p> <p>K.CC.4 Understand the relationship between numbers and quantities; connect counting to cardinality.</p> <ul style="list-style-type: none">a. When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object.b. Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted.c. Understand that each successive number name refers to a quantity that is one larger. <p>K.OA.1 Represent addition and subtraction with</p>	

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples
	<p>objects, fingers, mental images, drawings (drawings need not show details, but should show the mathematics in the problem), sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.</p> <p>MP.4 Model with mathematics.</p>	

DRAFT

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 2: Communication and Collaboration

Concept 2: Digital Solutions

Contribute to project teams to produce original works or solve problems.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Participate in a classroom learning project using digital collaborative resources.</p>	<p>Science K-S4C1-02 Name the following human body parts: head shoulders arms elbows wrists hands fingers</p> <p>Science K-S4C1-03 Identify the five senses and their related body parts: sight – eyes hearing – ears smell – nose taste – tongue touch – skin hips knees ankles feet heels</p>	<p>Explanation: Use a software program or online resource to collaborate on classroom project.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Writing • Draw a picture story with a partner using an age appropriate drawing software program such as MS Paint, Kidpix, and/or Kidspiration. • Using the program Kidspiration or Power Point, students can speak using a headset and describe their picture story in the classroom project. <p>Science Examples:</p> <ul style="list-style-type: none"> • Starfall About My Body • Sesame Street, students will use a digital collaborative tool to name/match human body parts as well as identify the five senses. Senses and Human Body Square of Life

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples
	<p>toes legs</p> <p>K.W.7 Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them).</p> <p>K.SL.5 Add drawings or other visual displays to descriptions as desired to provide additional detail.</p> <p>K.SL.6 Speak audibly and express thoughts, feelings, and ideas clearly.</p>	<ul style="list-style-type: none"> • An Internet-based collaborative project in which students will investigate their local environment and share that information with other students from around the country and the world. Square of Life <p>Language Arts Examples:</p> <ul style="list-style-type: none"> • Free registration is required. This is a program that will allow students to work on a classroom project, such as drawing a picture on a specific subject. The child can tell about the picture using VoiceThread. Other students can comment on what they see in the picture, thus creating a collaborative interactive project. VoiceThread.com • The Book Project allows students to use an interactive program to create a book cover for a picture story. Book Cover Project

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 2: Communication and Collaboration

Concept 3: Global Connections

Create cultural understanding and global awareness by interacting with learners of other cultures.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Explore other cultures through digital resources.</p>	<p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.RL.1 With prompting and support, ask and answer questions about key details in a text.</p> <p>K.RL.2 With prompting and support, retell familiar stories, including key details.</p> <p>K.RL.3 With prompting and support, identify characters, settings, and major events in a story.</p>	<p>Explanation: Use online resources and website to enrich learning about other cultures.</p> <p>Examples: Participate in online activities from resources such as, Discovery Streaming, Enchanted Learning, and Starfall to explore other cultures. This includes listening to music, reading fables, myths, and folk tales.</p> <p>Language Arts Examples: Stories from other cultures. Speaking and listening standards would be applied after listening to the story on StarFall. Starfall</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 3: Research and Information Literacy

This strand requires that students apply digital tools to gather, evaluate, and use information.

Concept 1: Planning

Plan strategies to guide inquiry.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Generate key words for a search from a teacher-posed question or topic.</p>	<p>K.RI.4 With prompting and support, ask and answer questions about unknown words in a text.</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.W.2 Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic.</p>	<p>Explanation: In a group discussion, brainstorm key words that can be used to search a database or website for specific information.</p> <p>Examples: Create a digital word web to generate key words for search using a concept mapping tool such as Webspiration, eduplace.com/graphicorganizer or interactive whiteboard activities.</p> <p>Language Arts Examples: A free concept mapping tool. Bubbl.us</p>
<p>PO 2: Explore a variety of information sources.</p>	<p>Social Studies K-S2C1-04 Use primary source materials (e.g., photos, artifacts) to study people and events from</p>	<p>Explanation: Identify which technology tools can be used to gather information about a subject.</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples
	<p>the past.</p> <p>Social Studies K-S2C1-03 Sequence recounts of historical events and people using the concepts of before and after.</p> <p>Social Studies K-S2C1-02 Listen to recounts of historical events and people and discuss how they relate to present day.</p> <p>Social Studies K-S2C1-01 Retell personal events to show an understanding of how history is the story of events, people, and places in the past.</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p>	<p>Examples: Participate in a class lesson to identify sources of information, including technology resources such as the Internet, to answer questions.</p> <p>Language Arts Examples: A free concept mapping tool Bubble.us</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 3: Research and Information Literacy

Concept 2: Processing

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

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Conduct a search using multiple keywords.</p>	<p>K.RI.1 With prompting and support, ask and answer questions about key details in a text.</p> <p>K.RI.2 With prompting and support, identify the main topic and retell key details of a text.</p> <p>K.RI.3 With prompting and support, describe the connection between two individuals, events, ideas, or pieces of information in a text.</p> <p>K.RI.4 With prompting and support, ask and answer questions about unknown words in a text.</p>	<p>Explanation: Brainstorm keywords to guide a search for information about a specific topic.</p> <p>Examples: Preselected search engines. Teachers select keywords when searching topics. A tab can be created just for "kids" by subject. Spanish translation also available. Safe search engines for kids Awesome Library</p>
<p>PO 2: Use preselected sources</p>	<p>Social Studies K-S1C1-04 Use primary source materials (e.g., photos,</p>	<p>Explanation: Select relevant information from teacher selected, technology resources.</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples
	<p>artifacts) to study people and events from the past.</p> <p>Science K-S4C3-03 Understand the relationships among various organisms and their environment.</p> <p>Science K-S4C3-01 Identify some plants and animals that exist in the local environment.</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p>	<p>Examples: Use teacher created web quests or web resources to search for facts about a particular plant. Great Pumpkin Detectives</p>
<p>PO 3: Demonstrate knowledge of real versus make-believe</p>	<p>Social Studies K-S2C1-04</p> <p>K.RI.9 With prompting and support, identify basic similarities in and differences between two texts on the same topic (e.g., in illustrations, descriptions, or procedures).</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p>	<p>Explanation: Students will participate in online activities.</p> <p>Examples: Use Tina’s World of Make-Believe to hear real and make-believe stories. Afterwards, students will use a painting program to create their own “real” or “make-believe” story. Tina's World</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples
	<p>K.W.1 Use a combination of drawing, dictating, and writing to compose opinion pieces in which they tell a reader the topic or the name of the book they are writing about and state an opinion or preference about the topic or book (e.g., My favorite book is . . .).</p> <p>K.W.3 Use a combination of drawing, dictating, and writing to narrate a single event or several loosely linked events, tell about the events in the order in which they occurred, and provide a reaction to what happened.</p>	
<p>PO 4: Sort information into major topics.</p>	<p>Science K-S1C4-01 Communicate observations with pictographs, pictures, models, and/or words.</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.CC.4</p>	<p>Explanation: Students will organize information gathered for research.</p> <p>Examples: Use an online graphic organizer from ReadWriteThink.org, students will organize living and nonliving things. Venn Diagrams</p> <p>Math Examples: <ul style="list-style-type: none"> Students make groups of zero to 5 objects, connect number names to </p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples
	<p>Understand the relationship between numbers and quantities; connect counting to cardinality.</p> <ol style="list-style-type: none"> a. When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object. b. Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted. c. Understand that each successive number name refers to a quantity that is one larger. <p>K.CC.5 Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle; or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.</p> <p>K.CC.6</p>	<p>the groups, compose and decompose numbers, and use numerals to record the size of a group. Building Numbers to Five</p> <ul style="list-style-type: none"> • A video on sorting. Great for fine motor skills, hand-eye coordination, visual discrimination, and beginning math skills. Shape Button Sorting

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples
	<p>Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies. (Include groups with up to ten objects.)</p> <p>K.MD.3 Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. (Limit category counts to be less than or equal to 10.)</p> <p>MP.4 Model with mathematics.</p>	
<p>PO 5: Identify and follow rules regarding the use of information resources.</p>	<p>Social Studies K-S3C4-02 Recognize the rights and responsibilities of citizenship: (a) elements of fair play, good sportsmanship, and the idea of treating others the way you want to be treated (b) importance of participation and cooperation in a classroom and community (c) why there are rules and the consequences for violating them (d) responsibility of voting (every vote</p>	<p>Explanation: The students will understand that there are rules when using the internet for information.</p> <p>Examples: The teacher will lead the class in a discussion referencing how to use classroom technologies and resources carefully and correctly. Students will then work collaboratively to create a classroom poster for reference.</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Performance Objectives	Curriculum Connections	Explanations and Examples
	<p>counts)</p> <p>Social Studies K-S3C4-01 Identify examples of responsible citizenship in the school setting and in stories about the past and present.</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p>	

Strand 4: Critical Thinking, Problem Solving, and Decision Making

This strand requires students to use critical thinking, problem solving, and decision making to manage projects using digital tools and resources.

Concept 1: Investigation

Identify and define authentic problems and significant questions for investigations.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Collaborate as a class to select an essential question to research using digital resources.</p>	<p>Science K-S4C3-03 Understand the relationships among various organisms and their environment.</p> <p>Science K-S4C3-02</p>	<p>Explanation: Building background knowledge and generating questions by using digital content is an important teaching tool.</p> <p>Examples:</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

	<p>Identify that plants and animals need the following to grow and survive:</p> <ul style="list-style-type: none">• food• water• air• space <p>Science K-S4C3-01 Identify some plants and animals that exist in the local environment.</p> <p>Science K-S4C1-01 Distinguish between living things and nonliving things.</p> <p>Science K-S1C1-01 Observe common objects using multiple senses</p> <p>K.SL.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.</p> <ol style="list-style-type: none">Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion).Continue a conversation through multiple exchanges.	<p>With the guidance of the teacher, record questions for a digital KWL chart using a concept mapping tool such as Webspiration or interactive whiteboard activities.</p>
--	---	---

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

	<p>K.SL.2 Confirm understanding of a text read aloud or information presented orally or through other media by asking and answering questions about key details and requesting clarification if something is not understood.</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.SL.5 Add drawings or other visual displays to descriptions as desired to provide additional detail.</p> <p>K.SL.6 Speak audibly and express thoughts, feelings, and ideas clearly.</p>	
--	--	--

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 4: Critical Thinking, Problem Solving, and Decision Making

Concept 2: Exploring Solutions

Plan and manage activities to develop solutions to answer a question or complete a project.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Participate in a group learning project using digital tools to answer a question.</p>	<p>Social Studies K-S3C4-04 Identify people who help keep communities and citizens safe (e.g., police, firefighters, nurses, doctors).</p> <p>K.SL.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.</p> <p style="padding-left: 20px;">a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion).</p> <p style="padding-left: 20px;">b. Continue a conversation through multiple exchanges.</p> <p>K.SL.2 Confirm understanding of a text read aloud or information presented orally or through other media by asking and answering questions about key details and requesting clarification if something is not</p>	<p>Explanation: Organize information using digital tools in a group learning project.</p> <p>Social Studies Examples:</p> <ul style="list-style-type: none"> • Students will use online resources to identify community members and citizens that keep the community safe. After finding community members such as fire-fighters, police officers, doctors and nurses, students will use a digital creative tool to share their understanding. • Students participate in collaborative projects online. Kindergarten Around the World • Sharing postcards with other Kindergartens. Kindergarten Postcard Exchange

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

	<p>understood.</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.SL.4 Describe familiar people, places, things, and events and, with prompting and support, provide additional detail.</p> <p>K.SL.5 Add drawings or other visual displays to descriptions as desired to provide additional detail.</p> <p>K.SL.6 Speak audibly and express thoughts, feelings, and ideas clearly.</p>	
<p>PO 2: Explore solutions or results as a class by discussing data collected.</p>	<p>K.SL.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.</p> <ol style="list-style-type: none"> a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion). b. Continue a conversation through 	<p>Explanation: Students look at results as a class by discussing data collected.</p> <p>Math Examples: Place information obtained by students, place into EXCEL or online spreadsheet tool and create a bar graph or circle graph, depending on the data. Follow with a discussion about the data and the graph - type of graph, what students observe. Create a Graph</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

	<p>multiple exchanges.</p> <p>K.SL.2 Confirm understanding of a text read aloud or information presented orally or through other media by asking and answering questions about key details and requesting clarification if something is not understood.</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.SL.5 Add drawings or other visual displays to descriptions as desired to provide additional detail.</p> <p>K.SL.6 Speak audibly and express thoughts, feelings, and ideas clearly.</p> <p>K.MD.2 Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the difference. For example, directly compare the heights of two children and describe one child as taller/shorter.</p>	
--	---	--

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

	<p>K.MD.3 Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. (Limit category counts to be less than or equal to 10.)</p> <p>MP.4 Model with mathematics.</p> <p>MP.6 Attend to precision.</p> <p>MP.7 Look for and make use of structure.</p>	
--	--	--

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 5: Digital Citizenship

This strand requires students to understand human, cultural, and societal issues related to technology practice and ethical behavior.

Concept 1: Safety and Ethics

Advocate and practice safe, legal, and responsible use of information and technology.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Identify use of personal devices and when it is appropriate to use them</p>	<p>Social Studies K-S3C4-02 Recognize the rights and responsibilities of citizenship: (a) elements of fair play, good sportsmanship, and the idea of treating others the way you want to be treated (b) importance of participation and cooperation in a classroom and community (c) why there are rules and the consequences for violating them (d) responsibility of voting (every vote counts)</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p>	<p>Explanation: Participate in class or small group lessons on when it is appropriate to use technology tools to meet personal needs.</p>
<p>PO 2: Identify and articulate rules for the use of digital tools as defined by school board policy and procedures</p>	<p>Social Studies K-S3C4-01 Identify examples of responsible citizenship in the school setting and in stories about the past and present.</p>	<p>Explanation: Students review school district’s Acceptable Use Policy (AUP) as well discuss and explain their classroom rules of safe technology use.</p> <p>Examples:</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

	<p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p>	<p>Discuss safety issues related to use of the Internet. Work cooperatively and collaboratively with others when using technology in the classroom. This information will then be made into a classroom poster for reference.</p>
<p>PO 3: Discuss why it may be dangerous to visit certain Internet sites</p>	<p>Social Studies K-S3C4-02 Recognize the rights and responsibilities of citizenship: (a) elements of fair play, good sportsmanship, and the idea of treating others the way you want to be treated (b) importance of participation and cooperation in a classroom and community (c) why there are rules and the consequences for violating them (d) responsibility of voting (every vote counts)</p> <p>K.SL.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.</p> <ul style="list-style-type: none"> a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion). b. Continue a conversation through multiple exchanges. <p>K.SL.3 Ask and answer questions in order to seek</p>	<p>Explanation: Teacher discusses with children why it may be dangerous to visit certain Internet sites.</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

	<p>help, get information, or clarify something that is not understood.</p> <p>K.SL.6 Speak audibly and express thoughts, feelings, and ideas clearly.</p>	
<p>PO 4: Recognize and discuss why there are rules for using technology at home and at school.</p>	<p>Social Studies K-S3C4-02 Recognize the rights and responsibilities of citizenship: (a) elements of fair play, good sportsmanship, and the idea of treating others the way you want to be treated (b) importance of participation and cooperation in a classroom and community (c) why there are rules and the consequences for violating them (d) responsibility of voting (every vote counts)</p> <p>K.SL.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.</p> <ol style="list-style-type: none"> a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion). b. Continue a conversation through multiple exchanges. 	<p>Explanation: Discuss why it may be dangerous to visit certain websites. Recognize safe practices when working online.</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

	<p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.SL.6 Speak audibly and express thoughts, feelings, and ideas clearly.</p>	
--	--	--

DRAFT

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 5: Digital Citizenship

Concept 2: Leadership for Digital Citizenship

Demonstrate leadership for digital citizenship.

Performance Objectives	Curriculum Connections	Explanations and Examples
No Performance Objectives		

DRAFT

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 5: Digital Citizenship

Concept 3: Impact of Technology

Develop an understanding of cultural, historical, economic and political impact of technology on individuals and society.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Recognize and discuss examples of technology used in daily life.</p>	<p>Science K-S3C2-01 Describe how simple tools (e.g., scissors, pencils, paper clips, hammers) can make tasks easier.</p> <p>K.SL.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.</p> <ul style="list-style-type: none"> a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion). b. Continue a conversation through multiple exchanges. <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.SL.6</p>	<p>Explanation: Using a digital collaborative tool students will identify examples of technology that is used on a daily basis that has improved our quality of life.</p> <p>Examples: Telephone, microwave, television, cameras, and the computer. Simple tools (old technology) such as scissors, pencils, hammers also could be examples.</p> <p>Language Arts Examples: VoiceThread allows speaking and listening to be used when identifying technology. VoiceThread</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

	Speak audibly and express thoughts, feelings, and ideas clearly.	
--	--	--

DRAFT

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 6: Technology Operations and Concepts

This strand requires students to demonstrate a sound understanding of technology concepts, systems, and operations.

Concept 1: Understanding

Recognize, define and use technology processes, systems, and applications.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Identify basic technology terms.</p>	<p>K.SL.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.</p> <ul style="list-style-type: none"> a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion). b. Continue a conversation through multiple exchanges. <p>K.SL.2 Confirm understanding of a text read aloud or information presented orally or through other media by asking and answering questions about key details and requesting clarification if something is not understood.</p> <p>K.SL.3 Ask and answer questions in order to seek</p>	<p>Explanation: Identify and use correct technology terms. For example: mouse, file, icon, keyboard.</p> <p>Examples: When using the computer, students will utilize teacher-created directions with picture cues to complete simple two or three step activities. The teacher and students will use/state the correct vocabulary to describe digital technologies.</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

	<p>help, get information, or clarify something that is not understood.</p> <p>K.SL.6 Speak audibly and express thoughts, feelings, and ideas clearly.</p>	
<p>PO 2: Apply technology process terminology.</p>	<p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.W.1 Use a combination of drawing, dictating, and writing to compose opinion pieces in which they tell a reader the topic or the name of the book they are writing about and state an opinion or preference about the topic or book (e.g., My favorite book is . . .).</p> <p>K.W.2 Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic.</p>	<p>Explanation: Students will demonstrate proper use of mouse, keyboard.</p> <p>Examples: Use keyboard to type letters or numbers. Use mouse to click, double-click and drag objects.</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

<p>PO 3: Identify technology applications for a given activity/project.</p>	<p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.W.1 Use a combination of drawing, dictating, and writing to compose opinion pieces in which they tell a reader the topic or the name of the book they are writing about and state an opinion or preference about the topic or book (e.g., My favorite book is . . .).</p> <p>K.W.2 Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic.</p> <p>K.W.3 Use a combination of drawing, dictating, and writing to narrate a single event or several loosely linked events, tell about the events in the order in which they occurred, and provide a reaction to what happened.</p>	<p>Explanation: students should choose participate in a variety of activities utilizing various technology applications in order to enhance learning, increase productivity and creativity.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Word Processing Program: personal narratives, poetry, rhymes, songs, chants, labels, lists, letters, notes • Publishing Program: posters, greeting cards, certificate • Spreadsheet Program: data collection, comparisons, charts, graphs • Presentation Program: multimedia presentation, public speaking, slide shows • Painting Program: produce creative works, illustrating and drawing
<p>PO 4: Demonstrate</p>	<p>Science K-S1C2-01</p>	<p>Explanation:</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

<p>knowledge of electrical safety when using computers and other technology.</p>	<p>Demonstrate safe behavior and appropriate procedures (e.g., use of instruments, materials, organisms) in all science inquiry.</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p>	<p>Students should that electrical cords and outlets should not be touched.</p> <p>Examples: Discuss with class that electrical cords and outlets should only be handled by an adult.</p>
--	--	---

DRAFT

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 6: Technology Operations and Concepts

Concept 2: Applications

Select and use applications effectively and productively.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Use the mouse/track pad to perform computer functions such as accessing an application, indicating a choice or activating a link. Use the keyboard to type letters and numbers and know how to use special key functions.</p>	<p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.W.1 Use a combination of drawing, dictating, and writing to compose opinion pieces in which they tell a reader the topic or the name of the book they are writing about and state an opinion or preference about the topic or book (e.g., My favorite book is ...).</p> <p>K.W.6 With guidance and support from adults, explore a variety of digital tools to produce and publish writing, including in collaboration with peers.</p>	<p>Explanation: Students will demonstrate proper use of mouse, keyboard.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Use single click and double click functions of the mouse. • Locate, identify and use letter/number keys. Students will place their left hand fingers on letters a, s, d, f, and their right hand fingers on letters j, k, l, ;. Both thumbs will use the space bar when needed. The left hand stays on the left side of the keyboard while the right hand stays on the right side of the keyboard.
<p>PO 2: Use technology to identify letters and numbers</p>	<p>K.SL.3 Ask and answer questions in order to seek</p>	<p>Explanation: Use interactive letter sorting literacy games, such as those found on</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

<p>and differentiate between them.</p>	<p>help, get information, or clarify something that is not understood.</p> <p>K.W.1 Use a combination of drawing, dictating, and writing to compose opinion pieces in which they tell a reader the topic or the name of the book they are writing about and state an opinion or preference about the topic or book (e.g., My favorite book is . . .).</p> <p>K.W.2 Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic.</p> <p>K.W.6 With guidance and support from adults, explore a variety of digital tools to produce and publish writing, including in collaboration with peers.</p>	<p>Waterford, ReadWriteThink.org, Starfall, Nick Jr. and PBS Kids.org</p>
<p>PO 3: Use an interactive presentation system as part of classroom work</p>	<p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p>	<p>Explanation: Use an interactive white board or data collection system with the class.</p> <p>Examples: Use SmartBoard tools, such as the interactive dice to develop addition strategies.</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

<p>PO 4: Identify and use common navigational elements of a web page.</p>	<p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.SL.6 Speak audibly and express thoughts, feelings, and ideas clearly.</p>	<p>Explanation: Identify and use functions such as links and icons.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Although typically, pre-k and kindergarten cannot read, many websites, such as Starfall, uses kid-friendly picture icons to help identify the feature requested and navigate within site. In addition, teacher-created directions with picture cues could be utilized to assist with multi-step directions. Starfall • Use vocabulary such as, web site, web page and home page when navigating thru a site on the World Wide Web.
<p>PO 5: Demonstrate appropriate use of log-in procedures.</p>	<p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p>	<p>Explanation: The students will know how to properly log in.</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 6: Technology Operations and Concepts

Concept 3: Troubleshoot Systems and Processes

Define problems and investigate solutions in systems and processes.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Devise a class plan on how to solve different types of technology problems.</p>	<p>K.SL.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.</p> <ul style="list-style-type: none"> a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion). b. Continue a conversation through multiple exchanges. <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.SL.6 Speak audibly and express thoughts, feelings, and ideas clearly.</p>	<p>Explanation: With teacher assistance, verify that cables are connected and power is on.</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

Strand 6: Technology Operations and Concepts

Concept 4: Transfer of Knowledge

Transfer current knowledge to learning of new technologies.

Performance Objectives	Curriculum Connections	Explanations and Examples
<p>PO 1: Transfer knowledge of technology used at home to technology that will be used at school</p>	<p>Science K-S3C2-01 Describe how simple tools (e.g., scissors, pencils, paper clips, hammers) can make tasks easier.</p> <p>K.SL.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.</p> <p> a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion).</p> <p> b. Continue a conversation through multiple exchanges.</p> <p>K.SL.3 Ask and answer questions in order to seek help, get information, or clarify something that is not understood.</p> <p>K.SL.6</p>	<p>Explanation: Identify examples of technology used in their daily lives such as, telephone, microwave, television, cameras, and computer.</p>

Arizona Educational Technology Standard Articulated by Grade Level
Grade K

	Speak audibly and express thoughts, feelings, and ideas clearly.	
--	--	--

DRAFT