

## Kindergarten iExplore Lab Scope and Sequence: 2021-2022

Topics	Library Skills	Design Thinking	Coding	Digital Citizenship	Technology Exploration
<b>Learning Objectives</b>	<p>Students will self-select books for enjoyment, personal interest, and enrichment.</p> <p>Students will learn book care rules and vocabulary related to the library and books.</p>	<p>Students will use a variety of resources within the design thinking process to identify and solve problems by creating new, useful or imaginative solutions.</p>	<p>Students will apply the principles of writing code through unplugged activities.</p> <p>Students will participate in coding activities using directional terms.</p>	<p>Students will recognize the rights, responsibilities, and opportunities of living, learning and working in an interconnected digital world.</p> <p>Students will act and model in ways that are safe, legal, and ethical.</p>	<p>Students will understand the fundamental concepts of technology operations, demonstrate the ability to choose, use and troubleshoot current technologies and are able to transfer their knowledge to explore emerging technologies</p>
<b>Academic Vocabulary</b>	spine title cover author illustrator barcode shelf marker digital ebooks	blueprint brainstorm design thinking define ideate prototype test communication creativity critical thinking collaboration  <a href="#">Engineering Design Process poster</a>  <a href="#">Design Thinking poster</a>	coding left right up down north south east west	password username privacy internet online offline media device website	internet online website digital
<b>Lessons and Resources</b>	<a href="#">Book Care Rules</a> <a href="#">Parts of a Book Song</a>  <a href="#">Library Management</a>	<a href="#">iExplore Design Thinking Website</a> - many resources and lesson ideas, video	<a href="#">Code.org Curriculum Lessons A 1-12</a> Unplugged Activities (without devices)	<a href="#">Common Sense Media K Lessons</a> (Teacher needs to create an account to access)	Coding Robotics Site-specific tech

	<p>folder in Schoology-Tutorials <a href="#">Destiny</a></p> <p>Start checkout in September at the earliest. Limit book selections to specific areas for K-1.</p>	<p><a href="#">Design Thinking Projects</a> <a href="#">Task cards</a> <a href="#">Defined Stem</a> <a href="#">PBSkids Design Squad</a></p> <p><a href="#">Design Thinking Challenge Sheet</a> (12 square grid)</p> <p><a href="#">teachengineering.org</a>-STEM Curriculum for K-12</p> <p>Additional ideas: Storybook STEM (see TPT for resources)</p> <p>Books- If I Built a Car If I Built a School If I Built a House- <a href="#">blueprint</a></p> <p><a href="#">STEM &amp; iExplore book list</a></p> <p><a href="#">Facilitative Questions for Maker Activities</a></p>	<p><a href="#">If then coding game</a> <a href="#">Gingerbread Coding</a> <a href="#">(can modify idea to fit theme)</a> <a href="#">Coding Arrows</a> <a href="#">Coding Stations and Games</a></p> <p>Websites: <a href="#">Bits and Bricks</a> <a href="#">Kodable.com</a> <a href="#">ScratchJr</a>- *add Scratch Jr app to Chromebooks <a href="#">Introducing Scratch Jr. to Students</a> <a href="#">Scratch Jr Resources</a></p> <p><a href="#">Coding Facilitative Questions</a></p>	<p>lessons.)</p> <p>Additional resources: <a href="#">ikeepSAFE Educators</a> <a href="#">netsafeutah.org</a> <a href="#">Internet</a> <a href="#">Safety-Netsmartz</a></p>	<p><a href="#">I want to research printable</a></p> <p><a href="#">Chromebook Keyboard Image</a></p> <p>Typing Club program- Jungle Junior: Set up by going to Clever &gt;Typing Club &gt;Classes &gt;Assignments &gt;Assign Lesson Plan &gt;Search for Jungle Junior</p> <p>Students may be able to access Typing Club through Clever. It should also be on their apps list.</p>
<p><b>Assessments</b></p>		<p><a href="#">Primary 4Cs Rubric</a></p>	<p>Informal Checklist-directional codes <a href="#">Reflection Journal</a></p>	<p>Keyboard Informal checklist-log in <a href="#">Common Sense Media Assessment</a> *Exposure to online format*</p>	

<b>Suggested Standards</b>		<a href="#">ISTE Standards</a>	<a href="#">Arizona Computer Science Standards</a>  <a href="#">AZ Ed Tech Standards by grade level</a>	<a href="#">ISTE Standards</a>  <a href="#">Arizona Computer Science Standards</a>  <a href="#">AZ Ed Tech Standards by grade level</a>	<a href="#">Arizona Computer Science Standards</a>  <a href="#">ISTE Standards</a>
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