

K-8 Technology Curriculum Scope

This document serves as a guide to how the basic technology unit content varies across grade levels. Units are guided by essential questions and skills for each grade level and are categorized to show the scope of skills across the curriculum.

Each unit is tied to these main competencies: **Communicate, Evaluate, Collaborate, Create**
(see Technology Curriculum Competencies document)

Grade	Online Safety/Digital Citizenship	Programming	Digital Storytelling	Office Tools	Research	Basic Technology Concepts and Operations <i>(not a unit)</i>
K	What information is safe/not safe to share online?	What is a program?	How can technology help tell a story? Digital Tools - Drawing software - Online story creation tools	What are office tools? Basic skills: - Understand how we can use technology to write like we do on paper.	What is research? Introductory skills: - using a website to learn about a topic	Introductory Skills - Finding keys on the keyboard - Using the back & forward buttons in a browser - Logging into online accounts - Basic mouse control, clicking - operating system navigation skills
1	What information is safe/not safe to share online? How do people use online tools safely to communicate?	How is programming used in daily life?	How can I use technology tools to create my own stories to share with the world? Digital Tools - Drawing software - Online story creation tools - Blogging - Word Processing tools	How can I use Word Processing or Presentation tools to communicate ideas? Basic skills: - Understand how using technology to write can help us collaborate and share ideas more easily. - opening, saving a word processing doc - creating a blog post	Why do people do research? Introductory skills: - Finding information about a topic on a website - Communicating findings orally or in writing	Introductory skills - Using home row to type with two hands - File management - using a search engine Developing skills - Navigating web pages independently - Developing operating system navigation skills - Logging into online accounts

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2	How do people use technology communicate responsibly?	How do people use programs to entertain?	How can I use technology tools to create my own stories or collaborate on stories? Digital Tools - Online story creation tools - Blogging - Word Processing & Presentation tools	How can I use Word Processing or Presentation tools to communicate ideas and collaborate? Basic skills: - open, save and type documents, both off and online - collaborate on documents with peers - create a blog post	How can I use technology to find information? Introductory skills: - Using a search engine - Communicating findings in writing or using digital tools Developing skills: - finding information on a website	Developing skills - Typing with two hands - Conducting basic web searches - File management - Operating system navigation skills Applied skills - Logging into personal accounts -- Choosing appropriate apps
3	How do people use online information responsibly?	How can I use a program to create and communicate ideas?	How can I use technology to create stories or collaborate on stories that entertain? Digital Tools - Online story creation tools - Blogging - Word Processing & Presentation tools	How can I use Word Processing or Presentation tools to communicate ideas and collaborate? Basic skills: - open, save and type documents, both off and online - collaborate on documents with peers - create a blog post How can I use Spreadsheet software to organize information? Basic skills: - understand rows, columns - enter teacher-provided data	How can I use technology to find information and share what I find? Why should I evaluate the information I find? Introductory skills: - Using keywords and search terms independently - Evaluating websites - Communicating findings using digital tools Developing skills: - finding information on a website	Introductory Skills - Introductory troubleshooting skills Developing skills - file management - Choosing appropriate apps - Conducting basic web searches independently Applied skills - Typing 15 WPM - Operating system navigation skills

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4	How do people use online information responsibly and respectfully?	How can I use a program to entertain?	<p>How can I use technology to create stories or collaborate on stories that teach others?</p> <p>Digital Tools</p> <ul style="list-style-type: none"> - Online story creation tools - Blogging - Word Processing & Presentation tools - Video - Podcasting 	<p>How can I use Word Processing or Presentation tools to communicate ideas and collaborate?</p> <p>Basic skills:</p> <ul style="list-style-type: none"> - insert images - format text 	<p>How can I use technology to find answers to my questions?</p> <p>Introductory skills:</p> <ul style="list-style-type: none"> - Identifying and exploring a question - Using information responsibly <p>Developing skills:</p> <ul style="list-style-type: none"> - Using keywords and search terms independently - Communicating findings using digital tools <p>Applied skills:</p> <ul style="list-style-type: none"> - finding information on a websites 	<p>Introductory skills</p> <ul style="list-style-type: none"> - Introductory skills using online course management tool <p>Developing skills</p> <ul style="list-style-type: none"> --Uploading/downloading files - Choosing appropriate apps - Troubleshooting skills <p>Applied skills</p> <ul style="list-style-type: none"> - Typing 20 WPM - File management - Operating system navigation skills
				<p>How can I use Spreadsheet software to organize information and analyze information?</p> <p>Basic skills:</p> <ul style="list-style-type: none"> - answer questions based on data 		
5	How do people use technology responsibly?	How can I create a program that communicates an idea and entertain?	<p>How can I use technology to create stories or collaborate on stories that inspire?</p> <p>Digital Tools</p> <ul style="list-style-type: none"> - Online story creation tools - Blogging - Word Processing & Presentation tools - Video - Podcasting 	<p>How can I use Word Processing or Presentation tools to communicate ideas and collaborate?</p> <p>Basic skills:</p> <ul style="list-style-type: none"> - insert tables - use bullets 	<p>How can I use technology to better understand the world?</p> <p>Developing skills:</p> <ul style="list-style-type: none"> - Identifying and exploring a question - Communicating findings to peers using digital tools - Using keywords and search terms independently - Using information responsibly - Evaluating information online 	<p>Developing skills</p> <ul style="list-style-type: none"> -Uploading/downloading files -Using an online course management tool -Choosing appropriate apps -Troubleshooting skills <p>Applied skills</p> <ul style="list-style-type: none"> - Typing 25 WPM - Operating system navigation skills -File management
				<p>How can I use Spreadsheet software to organize data that I collect and analyze this data?</p> <p>Basic skills:</p> <ul style="list-style-type: none"> - collect and input data - answer questions based on data 		

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6	How do people use technology responsibly for research and communication?	How can I create an interactive program that my peers would use?	<p>How can I use technology to create stories or collaborate on stories that are part of a larger global conversation?</p> <p>Digital Tools</p> <ul style="list-style-type: none"> - Online story creation tools - Blogging - Word Processing & Presentation tools - Video - Podcasting 	<p>How can I use Word Processing or Presentation tools to communicate ideas and collaborate?</p> <p>Basic skills:</p> <ul style="list-style-type: none"> - create a report - use templates to create a resume, cover letter or other document 	<p>How can I use technology to better understand the world?</p> <p>Developing skills:</p> <ul style="list-style-type: none"> - Identifying and exploring a question - Communicating findings to peers using digital tools <p>Applied skills:</p> <ul style="list-style-type: none"> - Using keywords and search terms independently - Using information responsibly - Evaluating information online 	<p>Developing skills -</p> <ul style="list-style-type: none"> - Uploading/downloading files - Troubleshooting skills <p>Applied skills</p> <ul style="list-style-type: none"> - Typing 30 WPM - File management - Using an online course management tool - Choosing appropriate apps - Operating system navigation skills
				<p>How can I use Spreadsheet software to organize data that I collect, analyze this data and report results?</p> <p>Basic skills:</p> <ul style="list-style-type: none"> - collect and input data - answer questions based on data - create charts from data 		
7	How do people use technology responsibly for research, communication and collaboration?	How can I create a model of a solution to a real world problem through programming?	<p>How can I use technology to create stories or collaborate on stories that will make a difference in my community?</p> <p>Digital Tools</p> <ul style="list-style-type: none"> - Online story creation tools - Blogging - Word Processing & Presentation tools - Video - Podcasting 	<p>How can I use Word Processing or Presentation tools to communicate ideas and collaborate?</p> <p>Basic skills:</p> <ul style="list-style-type: none"> - create a report - use templates to create a resume, cover letter or other document 	<p>How can research help me change <u>my</u> community?</p> <p>Developing skills:</p> <ul style="list-style-type: none"> - Collaborate on research projects <p>Applied skills:</p> <ul style="list-style-type: none"> - Identifying and exploring a question - Using keywords and search terms independently - Using information responsibly - Communicating findings with the world using digital tools 	<p>Applied skills</p> <ul style="list-style-type: none"> - Typing 35 WPM - File management - Using an online course management tool - Choosing appropriate apps - Operating system navigation skills <p>Developing skills</p> <ul style="list-style-type: none"> - Uploading/downloading files - Troubleshooting skills

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Grade	Digital Citizenship	Programming	Digital Storytelling	Office Tools	Research	Basic Technology Concepts and Operations
8	How do people use technology responsibly for research, communication and collaboration?	How can I create a model that provides a solution to a real world problem through programming?	<p>How can I use technology to create stories or collaborate on stories that will make a difference in the world?</p> <p>Digital Tools</p> <ul style="list-style-type: none"> - Online story creation tools - Blogging - Word Processing & Presentation tools - Video - Podcasting 	<p>How can I use Word Processing or Presentation tools to communicate ideas and collaborate?</p> <p>Basic skills:</p> <ul style="list-style-type: none"> - create a report - use templates to create a resume, cover letter or other document <hr/> <p>How can I use Spreadsheet software to organize data that I collect, analyze this data and report results?</p> <p>Basic skills:</p> <ul style="list-style-type: none"> - collect and input data - answer questions based on data - create charts from data 	<p>How can research help me change the world?</p> <p>Developing skills:</p> <ul style="list-style-type: none"> - Collaborate on research projects <p>Applied Skills:</p> <ul style="list-style-type: none"> - Identifying and exploring a question - Using keywords and search terms independently - Using information responsibly - Communicating findings with the world using digital tools 	<p>Developing skills</p> <ul style="list-style-type: none"> - Troubleshooting skills <p>Applied skills</p> <ul style="list-style-type: none"> - Typing 40 WPM - Managing files - Uploading/downloading files - Using an online course management tool - Choosing appropriate apps - Operating system navigation skills