



# TECHNOLOGY SKILLS SCOPE & SEQUENCE

**GRADES TK-2**



Fresno Unified School District

# Grades TK-2 Technology Scope and Sequence

## CCSS Standards Alignment and Skill Progression

Grade levels are not specified for the standards, as they are indicated in the grade level columns.

English language arts anchor standards	Mathematics standards
R - Reading Standards for Informational Text	MD – Measurement and Data
W - Writing	G - Geometry
SL - Speaking and Listening	EE - Expressions and Equations
L - Language	A - Algebra
	F - Functions
	SP - Statistics and Probability
	MP - Mathematical Practices

**Feedback**

[Submit feedback or  
get help](#)



Mathematics standards are focused mainly in grades 6-12 as there are no technology requirements in grades K-5. Standards for Mathematical Practice (MP) are also referenced as they encompass use of appropriate technology tools across various standards.

The Scope and Sequence identifies at which grade levels the skills need to be Introduced (I), Developed (D) and Proficient (P).

## ISTE Student Standards Alignment

The student technology skills are grouped within the [ISTE Students Standards](#) categories defined below.

1. Empowered Learner (Foundational skills such as computer input devices, word processing, and troubleshooting)
2. Digital Citizen (Acceptable use, copyright and plagiarism)
3. Knowledge Constructor (Internet research skills including search strategies, source evaluation, and content organization)
4. Innovative Designer (Multimedia and Presentation design skills)
5. Computational Thinker (Spreadsheets, data sets, charts, and algorithmic thinking)
6. Creative Communicator (Digital communication skills)
7. Global Collaborator (Digital collaboration skills both within and beyond borders)

## Grades TK-2 Technology Scope and Sequence

### How to use the Technology Scope and Sequence within Lesson Planning

1. Begin with the Standards and Objectives of your lesson.
2. Plan your Student Tasks aligned to the Standards and Objectives.
3. Consider integrating Technology Skills and resources into the student tasks where appropriate.
4. The Supporting Resources can be used to support either your learning/planning or the student's learning.

*Note: The technology skills can be integrated at anytime during a lesson or unit.*



## Grades TK-2 Technology Scope and Sequence

### Empowered Learner (Grades TK-2)

Students leverage technology to take an active role in choosing, achieving, and demonstrating competency in their learning goals, informed by the learning sciences.

Alignment to CCSS	Skills	Supporting Resources	TK	K	1	2
W.6, SL.2	Power on, login/logout, restart and shut down.	<a href="#">Turning on a Computer</a>	I	I	D	P
W.6, SL.2, R.7	Use desktop icons, windows and menus to open applications and documents	<a href="#">Using a Computer</a>	I	I	D	P
W6, SL.2, R..7	Properly use a touchpad and/or mouse: single- and double-click, drag-and-drop, scroll, multi-touch gestures.	Touchpad Tutorial <a href="#">Mouse Tutorial</a>	I	D	P	
SL.2, SL.5	Interact with touch screen technology, including tap, swipe, drag, ink, erase, etc.		I	D	P	
W.6, SL.2, R.7	Have a foundational understanding of the following components: computer, screen, mouse/touchpad, speakers, keyboard, headphones/earbuds, microphone	<a href="#">Basic parts of a Computer</a>	I	D	P	
W6, SL.2, R..7	Use peripheral hardware effectively, such as: document cameras, web cameras, microphones, headphones, microscopes, pedometers, interactive whiteboards, calculators, etc.	<a href="#">Interactive Panels</a> <a href="#">Document Cameras</a>	I	I	D	D
W.6, SL.5	Locate, identify and use: Enter, Escape, Spacebar, Shift, Arrows, and Backspace	<a href="#">Typing Club Introduction</a> <a href="#">Typing Club Website</a>		I	D	P
W.6, L.1	Locate, identify, and use letter, number, and punctuation keys.	<a href="#">Typing Club Introduction</a> <a href="#">Typing Club Website</a>		I	D	P
SL.2, SL.5	Turn on speakers, mute, and adjust volume using speaker icon in system tray.			I	D	P
W.6, L.1	Use correct hand-finger, home row, and pairing of fingers. • Use proper posture and ergonomics • Locate and use correct finger, hand for space bar, return/enter and shift key • Gain proficiency and speed in key striking and touch typing	<a href="#">Typing Club Introduction</a> <a href="#">Typing Club Website</a>			I	D

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SL.5, SL.6	Ask for help and/or search for solutions to common technology-related problems. (Example: disconnected cables, caps lock, microphone, etc.)	<a href="#">Troubleshooting Tips</a> <a href="#">Troubleshooting Basic Problems</a>			I	I
W.6, SL.5	Locate, identify and use Tab Key	<a href="#">Typing Club Introduction</a> <a href="#">Typing Club Website</a>				I
R.4, R.7	Use assistive reading features like zoom, read aloud, etc.	<a href="#">Immersive Reader</a> <a href="#">Read Aloud</a>		I	D	P
W.6, SL.5	Add and resize graphics and text boxes in a project.	<a href="#">Add and Resize Images</a> <a href="#">Add and Resize Text Boxes</a>		I	D	P
W.6	Use menu/tool bar functions to open, format, edit, save, and print a document.	<a href="#">The Menu Bar</a>			I	D
W.6	Highlight text, copy and paste text	<a href="#">The Menu Bar</a>			I	D
W.6, R.4	Select text and change font type, color, and size.	<a href="#">Formatting Text</a>			I	D
W.6	Use the touchpad to right-click for contextual menus				I	D
W.6, SL.5	Insert media (pictures, web links, hyperlinks, etc) into documents	<a href="#">Document Hyperlinks</a>				I
W.6, SL.5	Apply appropriate design and layout in common applications.					I
W.6, SL.5	Add slides, pages, and tabs in common applications.	<a href="#">Slide Basics</a>				I
W.6, SL.5	Use cut, copy, and paste using menus.	<a href="#">The Menu Bar</a>				I
W.4, W.6	Proofread and edit writing using appropriate resources (e.g., dictionary, spell checker, grammar, thesaurus, A.I.).	<a href="#">Checking Spelling and Grammar</a>				I
R.7, R.8, R.10	Use basic web-navigation skills. (Example: open browser, use favorites, use back button, click links, etc.)	<a href="#">Using a Web Browser</a>				I
W.6, W.7, W.8	Select an appropriate online application for a given task.					I

Key: I = Introducing | D = Developing | P = Proficient

## Grades TK-2 Technology Scope and Sequence

### Digital Citizen (Grades TK-2)

Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model digital citizenship in ways that are safe, legal and ethical.

Alignment to CCSS	Skills	Supporting Resources	TK	K	1	2
W.6, W.7	Understand and comply with the District Acceptable Use / Responsible Use Policy.	<a href="#">FUSD Acceptable Use Policy</a>		I	P	
W.6, W.8, SL.2, SL.5	Explain and demonstrate compliance with classroom, school rules (Acceptable Use Policy) regarding responsible use of computers and networks	<a href="#">FUSD Acceptable Use Policy</a>		I	D	P
W.6, W.8, SL.2, SL.5	Explain responsible uses of technology and digital information; describe possible consequences of inappropriate use	<a href="#">Digital Citizenship</a>		I	D	P
SL.1, SL.2, SL.3	Identify cyberbullying and describe strategies to deal with such a situation	<a href="#">Cyberbullying</a>		I	D	P
SL.1, SL.3, SL.6	Show respect for opinions and work of others posted electronically	<a href="#">Digital Media Literacy</a>		I	I	D
W.6, SL.2, SL.5	Demonstrate and define digital citizenship.	<a href="#">Digital Citizenship</a>		I	I	D
W.6, W.8, SL.2, SL.3	Identify and report cyberbullying.	<a href="#">Cyberbullying</a>		I	I	I
W.6, W.8, SL.2, SL.3	Recognize and describe the potential risks and dangers associated with various forms of online communications	<a href="#">Privacy and Security Relationships and Communication</a>			I	D
W.7, W.8, W.9	Explain Fair Use Guidelines for the use of copyrighted materials, (e.g. text, images, music, video in student projects) and giving credit to media creators	<a href="#">Digital Media Literacy</a>			I	D
W.6, W.8	Identify and explain the strategies for the safe and efficient use of computers (e.g. passwords, virus protection software, spam filters, popup blockers)	<a href="#">Creating Strong Passwords</a> <a href="#">Avoiding Malware</a> <a href="#">Run Antivirus Software</a>			I	D
W.6, W.8, SL.2, SL.3	Discuss and recognize danger in sharing private or inappropriate information online and understand the indelible nature of digital information.	<a href="#">Privacy and Security Relationships and Communication</a> <a href="#">Digital Footprint</a>				I
W.6, SL.3, SL.6	Meet expectations for district email.	<a href="#">FUSD Acceptable Use Policy</a>				I

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### Knowledge Constructor (Grades TK-2)

Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.

Alignment to CCSS	Skills	Supporting Resources	TK	K	1	2
R.7, W.7	Access digital content (audio, video) to build background knowledge and Investigate topics.			I	D	P
W.8, W.6, MP.6	Use age-appropriate technologies to locate, collect, organize content from media collection for specific purposes, citing sources			I	D	P
W.7, W.8, W.9	Evaluate teacher-selected or self-selected Internet resources in terms of their usefulness for research	<a href="#">Search Coach / Search Progress</a>			I	D
W.7, W.8, W.6	Use digital templates, graphic organizers and/or storyboards to record questions and analyze information.					I
W.7, W.8, W.9	Use digital tools to gather, analyze, graph and/or report results of Investigation.	<a href="#">Microsoft Excel Tutorials</a> <a href="#">Microsoft OneNote Tips and Tricks</a>				I
R.7, SL.2, SL.3	Access, analyze and evaluate electronic content-related audio and/or video to make Informed decisions.					I
R.6, R.7	Identify and analyze the purpose of a media message (to inform, persuade and entertain)	<a href="#">News and Media Literacy</a>				I
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### Innovative Designer (Grades TK-2)

Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.

Alignment to CCSS	Skills	Supporting Resources	TK	K	1	2
W.6	Add, edit and format text on a slide	<a href="#">Text basics in PowerPoint</a> <a href="#">Add and Style Text in Canva</a>			I	D
W.6, W.7, W.8, SL.5	Create a series of slides and organize them to present research or convey an idea	<a href="#">Slide basics in PowerPoint</a>				I
SL.5, W.6	Copy and paste or import graphics; change their size and position on a slide (Succinct: Handle Graphics (Copy, Paste, Import, Resize)	<a href="#">Insert pictures into PowerPoint</a>				I
SL.5, W.6	Use graphic design tools/ applications to create and edit work	<a href="#">Getting started with Canva</a>				I
SL.4, SL.5, W.6, W.8	Create presentations for a variety of audiences and purposes with use of appropriate transitions and animations to add interest	<a href="#">Using transitions in PowerPoint</a> <a href="#">Presenting with Canva</a>				I
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### Computational Thinker (Grades TK-2)

Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.

Alignment to CCSS	Skills	Supporting Resources	TK	K	1	2
MP.7	Explore and describe patterns from data in spreadsheets or tables.	<a href="#">Microsoft Excel Tutorials</a>			I	D
MP.5	Collect and analyze data in a spreadsheet or table.	<a href="#">Basic Tips for Working with Data in Excel</a>				I
MP.5	Use digital tools to gather, analyze, graph and/or report results of Investigation.	<a href="#">Microsoft Forms</a> <a href="#">Microsoft Excel Tutorials</a>				I
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### Creative Communicator (Grades 3-5)

Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.

Alignment to CCSS	Skills	Supporting Resources	TK	K	1	2
R.7, W.2, SL.5	Organize objects and ideas using a document camera.	<a href="#">Document Cameras</a>		I	D	P
W.2, SL.5, MP.5	Organize objects and ideas using: digital drawing tools, digital templates and graphic organizers, brainstorming/mind mapping software. (Example: drawing apps, spreadsheet, etc.)	<a href="#">Microsoft Whiteboard</a> <a href="#">Promethean Whiteboard</a>		I	D	P
SL.1, SL.5, MP.5	Use digital drawing tools and presentation software collaboratively to express ideas.	<a href="#">PowerPoint Tutorials</a>		I	D	P
SL.2, SL.4, SL.5. and SL.6	Create digital audio recordings using technology	<a href="#">Windows Sound Recorder</a>			I	D
SL.5, SL.6, and MP5	Modify teacher-created slides using presentation software.	<a href="#">PowerPoint Tutorials</a>			I	D
SL.5 and SL.6	Use a variety of age-appropriate technologies (e.g. drawing program, presentation software) to communicate and exchange ideas	<a href="#">Getting started with Canva</a> <a href="#">PowerPoint Tutorials</a>			I	D
SL.1, SL.2. and SL.6	Videoconference to communicate and learn with other classrooms.	<a href="#">Microsoft Teams Meetings</a>				I
SL.1, SL.2, SL.6	Use district approved cloud/online tools for communication	<a href="#">Email Basics</a>   <a href="#">Outlook Email</a>				I
SL.2, SL.4, SL.5, SL.6	Use a variety of media to present information for specific purposes (e.g., reports, research papers, presentations, newsletters, Web sites, podcasts, blogs), citing sources.	<a href="#">Getting started with Canva</a> <a href="#">PowerPoint Tutorials</a>				I
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### Global Collaborator (Grades TK-2)

Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

Alignment to CCSS	Skills	Supporting Resources	TK	K	1	2
R.7, SL.2	Access content-related digital images, digital stories, audio and video to broaden my global knowledge.		I	I	D	P
SL.1, SL.2, R.7	Participate in virtual field trips to broaden my global knowledge.	<a href="#">Microsoft Teams Meetings</a> <a href="#">Find Virtual Fieldtrips</a>	I	I	D	D
SL.5	Use digital drawing tools and presentation software collaboratively to express ideas	<a href="#">Microsoft Whiteboard</a> <a href="#">PowerPoint Tutorials</a>			I	D
W.6, SL.1, SL.2, SL.5	Work collaboratively online with other students under teacher supervision	<a href="#">Class Teams Posts</a> <a href="#">OneDrive</a>				I
W.6, SL.1, SL.2, SL.5	Use district approved cloud/online tools for collaboration (discussions forums, shared files, etc.)	<a href="#">Class Teams Posts</a> <a href="#">OneDrive</a>				I
SL.1, SL.4, SL.5	Videoconference to communicate and learn with other classrooms.	<a href="#">Microsoft Teams Meetings</a>				I
SL.2, SL.5	Use digital communication tools to broaden my global knowledge.	<a href="#">Find Virtual Fieldtrips</a>				I
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