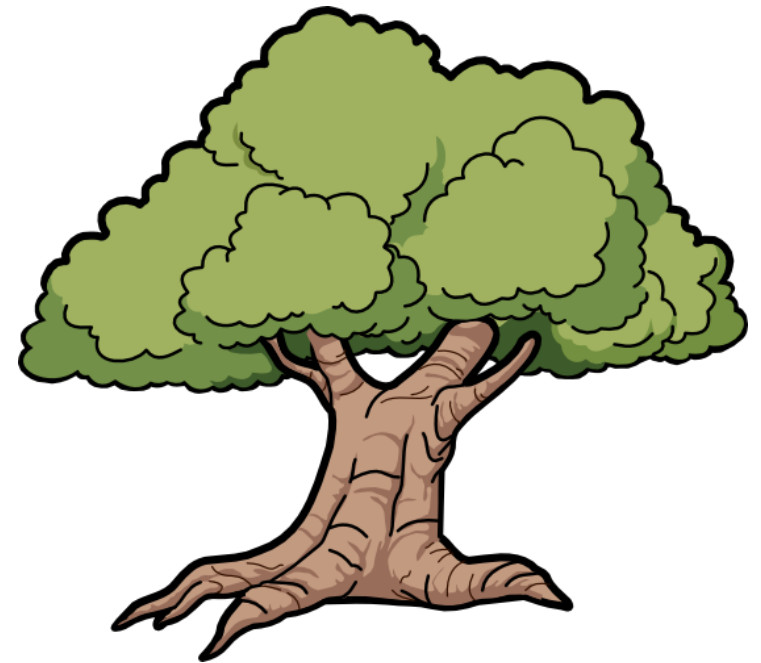


RESCUE UNION SCHOOL DISTRICT

Common Core State Standards

K-8 Technology Skills Scope and Sequence

This scope and sequence is aligned to the Common Core State Standards requirements for Mathematics and English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects as well as skills required for the Smarter Balanced Assessment Consortium's Computer Adaptive Testing.



Adapted from the Fresno County Office of Education Recommended Digital Literacy and Technology Skills to support the Common Core State Standards and the Long Beach Unified School District Common Core State Standards k-12 Technology Skills Scope and Sequence.

Introduction to the Scope and Sequence Document

The skills identified for each grade level align to the Common Core State Standards (CCSS) for Mathematics and English Language Arts & Literacy in History/Social Studies, Science and Technical Subjects as well as the skills required to take the Smarter Balanced Assessments.

Additional skills identified in this scope and sequence are from the National Educational Technology Standards 2007: Creativity and Innovation; Digital Literacy; and Technical Operations and Concepts.

Standards

English Language Arts Anchor Standards	Mathematics Standards
RL – Reading Standards for Literature RI – Reading Standards for Informational Text W – Writing SL – Speaking and Listening L - Language	MD – Measurement and Data G – Geometry EE – Expressions and Equations A – Algebra F – Functions SP – Statistics and Probability SMP – Standards for Mathematical Practice

International Society for Technology in Education (ISTE) - Standards for Students
<ol style="list-style-type: none">1 Creativity and innovation2 Communication and collaboration3 Research and information fluency4 Critical thinking, problem solving, and decision making5 Digital citizenship6 Technology operations and concepts

This Scope and Sequence identifies which grade levels the skills need to be introduced (I), reinforced (R), and mastered (M). Skills identified as optional for a grade level (O) are left to the discretion of the teachers who may choose to teach the skills to the students.

Adapted from the Fresno County Office of Education Recommended Digital Literacy and Technology Skills to support the Common Core State Standards and the Long Beach Unified School District Common Core State Standards k-12 Technology Skills Scope and Sequence.

Elementary Grades (K-5)

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Elementary - Basic Operations

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	K	1	2	3	4	5
Basic Operations	SBAC Testing Skills, ISTE 6A	Turn on the computer and login	I	R	M	M	M	M
	SBAC Testing Skills, ISTE 6A	Use a pointing device such as a mouse to manipulate shapes, click on urls, radio buttons, check boxes, use scroll bar	I	R	M	M	M	M
	SBAC Testing Skills, ISTE 6A	Use desktop icons, windows and menus to open applications, web apps, and documents	I	R	M	M	M	M
	SBAC Testing Skills, ISTE 6A	Manage files and save documents	O	I	R	M	M	M
	SBAC Testing Skills, ISTE 6A, ISTE 6B	Explain and use age-appropriate online tools and resources		I	R	M	M	M
	W6, ISTE 6A	Keyboarding <ul style="list-style-type: none"> • Use proper posture and ergonomics • Locate and use letter and numbers keys with left and right hand placement • Locate and use correct finger/hand for spacebar, enter, and shift key • Gain proficiency and speed in keyboarding (Type 5 words per grade level beginning at 2nd grade) 	I	R	M	M	M	M
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level								

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Elementary – Word Processing

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	K	1	2	3	4	5
Word Processing	W5, W6, W10, ISTE 1A	Use a word processing application to write, edit, save, and print assignments in a sitting	I	R	M	M	M	M
	W5, W6, W10	Use menu/tool bar functions, such as font size, font style, line spacing, etc., to format a document		I	R	M	M	M
	W5, W6, W10, SBAC Testing Skills	Highlight, copy, and paste text		O	I	R	M	M
	W5, W6, W10	Copy, paste, insert and resize images within the documents and from outside sources		I	R	M	M	M
	L4	Proofread and edit writing using appropriate resources (spell checker, grammar checker, thesaurus, etc.)		O	I	R	M	M
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level								

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Elementary – Spreadsheets (Tables, Charts, and Graphs)

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	K	1	2	3	4	5
Spreadsheet (Tables, Charts, and Graphs)	SBAC Testing Skills MD, ISTE 1C	Demonstrate an understanding of the spreadsheet as a tool to record, organize, and graph information				I	R	M
	SBAC Testing Skills	Identify and explain terms and concepts related to spreadsheets (i.e. cells, columns, rows, values, charts, graphs)			O	I	R	M
	SBAC Testing Skills MD, ISTE 4C	Enter and edit data in spreadsheets and perform calculations using formulas			O	I	R	M
	SBAC Testing Skills MD	Use mathematical symbols appropriately (+, -, *, /, ^)				I	R	M
	RI7, ISTE 1D	Use spreadsheets to make predictions, solve problems, and draw conclusions				I	R	M
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level								

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Elementary – Multimedia and Presentation Tools

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	K	1	2	3	4	5
Multimedia and Presentation Tools	W6	Create, edit, and format text on a slide		I	R	M	M	M
	W6, ISTE 2B	Create a series of slides and organize them to present research or convey data			I	R	M	M
	W6 SL5	Copy, paste, import, reposition and resize graphics on a slide			O	I	R	M
	W SL5	Use painting/drawing tools to create and edit work			I	R	M	M
	W6 RL7 SBAC Testing Skills	Watch online videos and use play, pause, rewind, and forward buttons while taking notes	I	R	M	M	M	M
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level								

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Elementary – Responsible Use, Copyright, and Plagiarism

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	K	1	2	3	4	5
Responsible Use, Copyright, and Plagiarism	Digital Citizenship, ISTE 5A	Explain and demonstrate compliance with Responsible Use Policy and classroom rules regarding computers and networks	I	R	M	M	M	M
	Digital Citizenship, ISTE 5A	Explain responsible uses of technology and digital information and describe potential consequences of inappropriate use	I	R	M	M	M	M
	Digital Citizenship, ISTE 5A	Explain fair use guidelines for copyrighted material (images, music, videos, etc.)		I	R	M	M	M
	Digital Citizenship, ISTE 5A	Identify and explain the strategies for the safe and efficient use of computers (passwords, virus protection software, etc.)		I	R	M	M	M
	Digital Citizenship, ISTE 5A	Demonstrate safe e-mail practices and appropriate e-mail etiquette				I	R	M
	Digital Citizenship, ISTE 5A	Identify cyberbullying and describe strategies to deal with such a situation	I	R	M	M	M	M
	Digital Citizenship, ISTE 5A	Recognize and describe the potential risks and dangers associated with online communication		I	R	M	M	M
			I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level					

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Elementary – Research and Gathering Information

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	K	1	2	3	4	5
Research and Gathering Information	R15 R17, Digital Citizenship, ISTE 3B	Use age-appropriate technology to locate, collect, and organize content for a specific purpose.	I	R	M	M	M	M
	R15 R17, ISTE 3B	Perform basic searches on a database (i.e. library card catalogue, encyclopedia) to locate information			I	R	M	M
	R15 R17, ISTE 3C	Evaluate Internet resources in terms of their usefulness for research		I	R	M	M	M
	R17, ISTE 3D	Use content specific technology tools (sensors, measuring devices, etc.) to gather and analyze data			O	I	R	M
	R16 R17 R19, ISTE 2B	Use Web 2.0 tools (online discussion, blogs, etc.) to gather and share information			O	I	R	M
	R17, ISTE 3C	Identify and analyze the purpose of a media message (inform, persuade, entertain)	I	R	M	M	M	M
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level								

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Elementary – Communication and Collaboration

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	K	1	2	3	4	5
Communication and Collaboration	W6, ISTE 2A	Work collaboratively online with other students under teacher supervision			I	R	M	M
	W6 W10, ISTE 2B	Use a variety of age-appropriate technologies to communicate and exchange ideas		I	R	M	M	M
	W6 W10 SL2 SL5, ISTE 1B	Create projects that use text and various forms of graphics, audio, and video to communicate ideas			I	R	M	M
	W6 W10 SL3, ISTE 3B	Evaluate multimedia presentations for organization, content, design, and appropriateness of citations			O	I	R	M
	W6W10 SL1, ISTE 2A, ISTE 2B	Use District approved WEB 2.0 tools for communication and collaboration			I	R	M	M
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level								

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Secondary Grades (6-8)

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Secondary – Basic Operations

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	6	7	8
Basic Operations	Technology Operations & Concepts, ISTE 6C	Identify troubleshooting strategies for minor hardware and software issues	I	R	M
	Technology Operations & Concepts, ISTE 6A	Independently operate peripheral equipment (i.e. scanner, digital camera, etc.)	I	R	M
	Technology Operations & Concepts	Compress and expand large files	I	R	M
	Technology Operations & Concepts, ISTE 6A	Identify and use a variety of storage media (CDs, flash drives, servers, cloud) and provide a rationale for using a certain medium for a specific purpose	I	R	M
	W6, SBAC Testing Skills	Demonstrate automaticity in keyboarding skills by increasing accuracy and speed	R	M	M
	Creativity and Innovation, ISTE 6D	Identify and assess the capabilities and limitations of emerging technologies	I	R	M
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level					

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Secondary – Word Processing

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	6	7	8
Word Processing	W5 W6 W10, ISTE 6A	Demonstrate the use of intermediate features in word processing applications (i.e. tabs, indents, bullets, numbers, tables, headers, footers, etc.)	I	R	M
	W5 W6 W10 SL 5, ISTE 6A	Apply advanced formatting and page layout features when appropriate (i.e. Columns, templates, styles) to improve the appearance of documents and projects	I	R	M
	W5 W6 W10 SBAC Testing Skills	Highlight, copy, and paste text	R	M	M
	W5 W6 W10 SL1, ISTE 2A	Use the comment function in review for peer editing documents	I	R	M
	W5 W6 W10 SL1, ISTE 2A	Use the track changes feature in review for peer editing of documents		O	I
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level					

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Secondary – Spreadsheets (Tables, Charts, and Graphs)

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	6	7	8
Spreadsheet (Tables, Charts, and Graphs)	F SMP5 RI7, ISTE 4C	Use spreadsheets to calculate, graph, organize, and present data in a variety of real world settings	I	R	M
	F SMP5 RI7, ISTE 4C	Enter formulas and functions in spreadsheet applications	I	R	M
	F EE SMP5 RI7	Use the functions and tools of a spreadsheet application (auto-fill, sort, filter, find)	I	R	M
	EE SMP 6	Use various number formats (scientific notation, percentages, etc.) as appropriate	I	R	M
	F SMP5 RI7	Use advanced formatting features of a spreadsheet application (reposition columns and rows, add and name worksheets)	I	R	M
	SMP5 RI7	Differentiate between formulas with absolute and relative cell references			I
	SMP5 RI7	Use multiple sheets within a workbook and create links among workbooks to solve problems		O	I
	SMP5 RI7, ISTE 4D	Import and export data between spreadsheets and other applications		O	I
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level					

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Secondary – Mathematical Operations

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	6	7	8
Mathematical Application	G SMP5, ISTE 1C	Draw two and three dimensional geometric shapes using a variety of technology tools	I	R	M
	EE SMP5	Use and interpret scientific notations using technology applications			I
	EE A F SP SMP5 W8 SL5, ISTE 4A	Explain and demonstrate how specialized technology tools can be used for problem solving, decision making, and creativity in all subject areas	I	R	M
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level					

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Secondary – Multimedia and Presentation Tools

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	6	7	8
Multimedia and Presentation Tools	SMP3 SL5, ISTE 1B	Create presentations for a variety of audiences and purposes with the use of appropriate transitions and animations to add interest	R	M	M
	SMP5 W6, ISTE 4D	Use a variety of technology tools (spell checker, calculator, etc.) to maximize the accuracy of work	R	M	M
	SL5, ISTE 6A	Make strategic use of digital media to enhance understanding	R	M	M
	W6 SL5, ISTE 6A	Use painting/drawing tools and other applications to create and edit work	R	M	M
	RL7 RI7 SBAC Testing Skills	Using the play, pause, rewind, and forward buttons, take notes while viewing online videos	R	M	M
	SMP3 SL5, ISTE 4A	Independently use appropriate technology tools (graphic organizers, audio and video tools, etc.) to define problems and propose hypotheses	I	R	M
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level					

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Secondary – Responsible Use, Copyright, and Plagiarism

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	6	7	8
Acceptable Use, Copyright, and Plagiarism	Digital Citizenship, ISTE 5A	Comply with the District’s Responsible Use Policy related to ethical use, cyberbullying, privacy, plagiarism, spam, viruses, hacking, and file sharing	R	M	M
	Digital Citizenship, ISTE 5A	Explain Fair Use guidelines for using copyrighted material and possible consequences for inappropriate use	R	M	M
	Digital Citizenship, ISTE 3B	Analyze and explain how media and data can be used to distort, exaggerate, and misinterpret information	I	R	M
	Digital Citizenship, ISTE 5A	Give examples of hardware and applications that enable people with disabilities to use technology	I	R	M
	Digital Citizenship, ISTE 5A	Explain the potential risks associated with the use of networked digital environments (i.e. Internet, cell phones, wireless networks) and sharing personal information	R	M	M
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level					

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Secondary – Research (Gathering and Using Information)

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	6	7	8
Research (Gathering and Using Information)	RI5 RI7, ISTE 3B	Identify probable types and locations of websites by examining their domain name (i.e. .org, .com, .us, .edu)	I	R	M
	RI5 RI7, ISTE 3B	Use effective search strategies for locating and retrieving electronic information (syntax and Boolean logic operators)	R	M	M
	RI5 RI7, ISTE 3C	Use search engines and online directories, compare the differences, and explain how they rank results	I	R	M
	RI7	Use appropriate academic language in online learning environments	I	R	M
	RI5 RI7 SMP3, ISTE 2C	Explain how technology can support communication, collaboration, personal and professional productivity, and lifelong learning	I	R	M
	RI5 RI7	Write correct in-text citations and reference lists for texts and images gathered from electronic sources	I	R	M
	RI5 RI7, ISTE 6A	Use Web browsing to access information (enter a URL, access links, create bookmarks, print webpages)	I	R	M
	RI7 RI10 SMP5	Use and modify databases and spreadsheets to analyze data and propose solutions, ISTE 1D	I	R	M
	RI7 SMP3, ISTE 3C	Develop and use guidelines to evaluate the content, organization, design, use of citations, and presentation of technologically enhanced projects	I	R	M
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level					

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Secondary – Communication and Collaboration

Digital Literacy Category	Alignment to CCSS/SBAC	Skills	6	7	8
Communication and Collaboration	W6 W10 SL5 SMP5 RI7, ISTE B	Use a variety of media to present information for specific purposes (i.e. reports, research papers, presentations, podcasts, etc.)	R	M	M
	W6 W10 SL2 SL5 SMP3, ISTE 3C	Demonstrate how the use of various techniques and effects (editing, color, music) can be used to convey meaning in media	I	R	M
	RI6 RI7 RI9 SMP3 SL5, ISTE 2A, ISTE 2B	Use a variety of District approved Web 2.0 tools (e-mail, online discussions, blogs, etc.) to collaborate and communicate with peers, experts, and other audiences, using academic language	R	M	M
	W6 W10 SL3, ISTE 3B	Evaluate multimedia presentations for organization, content, design, presentation, and appropriateness for citations	R	M	M
	RI6 RI7 RI9 SMP3, ISTE 4B	Plan and implement a collaborative project with other students using telecommunications tools (e-mail, discussion forums, video-conferencing, etc.)	I	R	M
I - Introduce R- Reinforce M- Mastery O - Optional for Grade Level					

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