

ISTE Scope & Sequence with Standards

Basic Operations & Concepts	Introduced		Developing			Proficient		ISTE STANDARDS
	K	1	2	3	4	5	6	
Identify the basic components of the computer: monitor, keyboard, mouse, headphones, ports and printers.								1C, 1D, 6A
Turn on/off a computer, laptop and/or handheld device and login.								1C, 1D, 6A
Use a mouse or trackpad to manipulate shapes, icons; click on URLs, radio buttons, check boxes; use scroll bar.								1C, 1D, 6A
Use desktop icons, windows and menus to open and close applications and documents; understand difference between closing and quitting applications.								1C, 1D, 6A
Use shortcuts to operate the computer (i.e. Command-P, Command-C, Command-V).								1C, 1D, 6A
Use gestures to navigate handheld devices.								1C, 1D, 6A
Use the print dialog box to select local printers and change settings (i.e. number of copies, color, paper size, orientation, scale, one-sided vs. two-sided).								1C, 1D, 6A
Utilize basic troubleshooting steps to solve technical problems independently.								1C, 1D, 6A

Can associate document extensions with appropriate file types.								1C, 1D, 6A
Understand how cloud computing is different from using software applications.								1C, 1D, 6A
Is able to upload/download/retrieve files to and from the cloud.								1C, 1D, 6A
Personal Data Management	K	1	2	3	4	5	6	
Protect accounts by logging out of shared equipment.								2A, 2B
Keep passwords confidential, and be proactive if they are compromised.								2A, 2B
Use passcodes/passwords to secure individual devices.								2A, 2B
Create robust passwords and effectively manage password privacy.								2A, 2B
Find and adjust privacy settings.								2A, 2B
Online Safety	K	1	2	3	4	5	6	

Build a positive digital footprint/reputation.								2A, 2B
Recognize the difference between active and passive data collection when using the Internet and social media sites.								2A, 2B, 2D
Understand how browser settings such as cookies track personal information.								2A, 2B, 2D
Keyboarding	K	1	2	3	4	5	6	
Use keyboarding programs and games to assist in development of skills.								1C, 1D, 6A
Use proper posture and ergonomics.								1C, 1D, 6A
Locate and use letter and number keys with correct left and right hand placement (home row).								1C, 1D, 6A
Locate and use correct finger/hand for space bar, return/enter and shift key.								1C, 1D, 6A
Gain proficiency and speed in touch typing.								1C, 1D, 6A
Learn to use special characters as needed (i.e. accents, tilda)								1C, 1D, 6A

Painting & Drawing Programs	K	1	2	3	4	5	6	
Use basic drawing tools including pencil, paint brush, shape, line, undo, redo and eraser.	Blue	Blue	Yellow	Green	Green	Green	Green	1C, 1D, 4A, 4B, 6A
Use color palette/color wheel to change tool color.	Blue	Yellow	Green	Green	Green	Green	Green	1C, 1D, 4A, 4B, 6A
Use selection tools to copy, paste, move and modify work.	White	White	Blue	Yellow	Yellow	Yellow	Yellow	1C, 1D, 4A, 4B, 6A
Use text tool to add text features to artwork.	Blue	Yellow	Green	Green	Green	Green	Green	1C, 1D, 4A, 4B, 6A
Use basic design principles (i.e. whitespace, color, balance, texture)	White	White	White	White	White	Blue	Yellow	1C, 1D, 4A, 4B, 6A
Communication & Collaboration Tools	K	1	2	3	4	5	6	
Is polite and respectful in all communications and collaborations using technological tools, using appropriate language at all times.	Blue	Blue	Yellow	Yellow	Yellow	Green	Green	2A, 2B
Use email, messaging and other tools to share information and communicate ideas with others.	White	White	Blue	Yellow	Yellow	Yellow	Green	1B, 1C, 1D, 6A
Compose and send an email.	White	White	Blue	Yellow	Yellow	Yellow	Green	1C, 1D, 6A

Understand the difference between Reply Send, Reply All and Forward when responding to an email.								1C, 1D, 6A
Understand the difference between CC (carbon copy) and BCC (blind carbon copy) and use them appropriately.								1C, 1D, 6A
Attach a document or file to an email.								1B, 1C, 1D, 6A
Use a course or learning management system to access class pages, class calendars, portfolios and grades.								1B, 1C
Use features of a course or learning management system such as discussion forums, polls, wikis, dropbox, etc. to access and complete assignments.								1B, 1C
Access calendar and student pages on school website as needed.								1C, 1D, 6A
Use audience response tools and apps to participate in class discussions.								6A, 7B
Set up, share and utilize collaborative workspaces, documents, or other digital tools for asynchronous and synchronous collaboration.								6A, 7A, 7B
Use synchronous collaboration tools such as video conferencing, interactive television and voice over IP to connect with others.								6A, 7A, 7B
Use virtual world and gaming tools to work collaboratively toward common goals.								6A, 7A, 7B, 7C, 7D

Identify and explain terms and concepts related to spreadsheets (i.e. cell, column, row, values, labels, chart, graph)									1C, 1D, 6A
Enter/edit data and text into a spreadsheet and format spreadsheet to accommodate data.									1C, 1D, 6A
Calculate numerical equations using spreadsheet formulas and functions.									1C, 1D, 6A
Designate the format of a cell to accommodate different kinds of text and numerical data.									1C, 1D, 6A
Utilize spreadsheet data to create tables, charts and graphs.									1C, 1D, 6A
Identify and explain terms and concepts related to database systems (i.e. field, set, subset, query, ordered, sorted).									1C, 1D, 6A
Enter/edit data and/or text into a database and use queries to find information.									1C, 1D, 6A
Use spreadsheets and databases to make predictions, solve problems and draw conclusions.									1C, 1D, 6A
Multimedia and Presentation Tools	K	1	2	3	4	5	6		
Use a digital camera, video camera, or camera on a handheld devices to take pictures and videos.									1C, 1D, 6A, 4A, 4B

Capture images that incorporate rules of photography.								1C, 1D, 6A, 4A, 4B
Use photo and video editing tools to adjust images and add effects.								1C, 1D, 6A, 4A, 4B
Save images in multiple formats.								1C, 1D, 6A, 4A, 4B
Use recording and editing equipment to record, edit and publish audio.								1C, 1D, 6A, 4A, 4B, 6B
Create, edit and format text, visuals and audio within a multimedia presentation.								1C, 1D, 6A, 4A, 4B, 6B
Create a series of slides and organize them to present research or convey an idea.								1C, 1D, 6A, 4A, 4B, 6B
Copy/paste or import graphics within a multimedia presentation. Be able to change their size and position on a slide.								1C, 1D, 6A, 4A, 4B
Insert songs, videos or other media on slides.								1C, 1D, 6A, 4A, 4B
Add a working hyperlink to a multimedia presentation.								1C, 1D, 6A, 4A, 4B
Internet Searching & Online Databases	K	1	2	3	4	5	6	

Use graphic organizers, brainstorming applications, or other digital tools to gather and organize information.	■	■	■	■	■	■	■	1C, 1D, 6A
Use digital tools to create timelines of people, historical events, etc. to organize information sequentially.	■	■	■	■	■	■	■	1C, 1D, 3A, 3C, 6A, 6C