PLAINVILLE PUBLIC SCHOOLS



TECHNOLOGY SCOPE AND SEQUENCE GRADES K-6

The Technology Scope and Sequence was adapted from http://structuredlearning.net and was revised to support technology integration across the curriculum in the Plainville school district. This document outlines the required skills for grades K-6 based on ISTE National Standards and the Common Core Standards.

K-6 TECHNOLOGY SCOPE AND SEQUENCE

Aligned with ISTE Standards and CCSS

Review each skill with I/W/M/C under "ISTE" as students accomplish it ('ISTE' refers to the ISTE Standard addressed by the skill)

IS TE	I_INTRACIICAA: W_WYAKINA AN: WI_WI2STAFAA: I _I AMAIATAA										
	*****Achievement Evaluation Key*****										
	 I – Students are first introduced to the skills W – Students grasp and apply the key skills required of the standards with support 										
						41					
	M – Students apply the key skills required of the standards independ										
	C – Students apply the key skills required of the standards to complete in-depth projects across the curriculum.										
T	Computers and Applications	K	1	2	3	4	5	6			
	dents demonstrate proficiency in the use of computers and applications, as to cepts underlying hardware, software and connectivity	vell a	as an	und	ersta	ndin	g of t	he			
Ва	sic Operations										
	Know hardware names such as desktops laptops, notebooks, and tablets	I	W	W	W	М	С	С			
	Know parts of keyboardkeys, numbers, arrows and esc	I	W	W	W	М	С	С			
	Know escape, period key, shift key, spacebar and tab	I	W	W	W	М	С	С			
	Understand the difference between power buttons on monitor and computer	I	W	W	М	С	С	С			
	Know how to use the volume button on computer	I	W	W	М	С	С	С			
	Operating Systems										
	Know how to Log-on/Log-off and Switch User	I	W	W	W	М	С	С			
	Know how to Ctr+Alt+Del		I	W	W	М	С	С			
	Know how to Open/Close programs	I	W	М	С	С	С	С			
	Know the difference between Save and Save As	I	W	М	С	С	С	С			
	Know how to use basic pointer skills and selection with mouse (i.e. clicking and moving a mouse) and to highlight text in an on-screen environment	ı	W	М	С	С	С	С			
	Know how to use scroll bars to scroll vertically and horizontally within a page	I	W	М	С	С	С	С			
	Know how to use highlighting tool to highlight text or images, and drag and drop in selected location	I	W	М	С	С	С	С			
	Understand concepts of taskbar, start button and icons	I	W	W	W	M	С	С			
	Know how to save to network file folder	I	W	W	W	W	М	С			
	Know how to find a file (following the file path)		I	W	W	W	M	С			
	Know how to use drop-down menus		I	W	W	W	М	С			
	Understand how to create file folders				I	W	М	С			
	Know how to copy-paste from one program to another				I	W	М	С			
	Know how to drag-drop within a document and between folders			Ι	W	W	М	С			
	Know how to access different drives			Ι	W	W	М	С			
	Know how to select a printer and print a document with the appropriate page setup and orientation				I	W	М	С			

Mouse Skills		K	1	2	3	4	5
Know how to click, hold, and drag		I	W	M	С	С	С
Know how to double click		I	W	М	С	С	С
Know how to hover		I	W	М	С	С	С
Understand the difference between left-click and right-click buttons	;				ı	W	М
Keyboarding Skills							
Practice touch typing; type with hands on their own side of keyboar	rd			ı	W	W	М
Keyboard goal is grade-appropriate (refer to keyboarding standard For students with disabilities, demonstrate alternate input technique							
Grade 3 - Demonstrate keyboarding skills between 10-15 wpm					W	W	М
Grade 4 - Demonstrate keyboarding skills between 15-25 wpm. wit one page in a single sitting					W	W	М
Grade 5 - Demonstrate keyboarding skills between 15-25 wpm. wit two pages in a single sitting.	h a minimum of				W	W	M
Grade 6 - Demonstrate keyboarding skills between 25-30 wpm. (fe	wer than 5 errors).				W	W	М
Word Processing							
Know the basics of word processing		I	W	W	М	С	С
Know how to use online word processing programs		I	W	W	М	С	С
Know how to use classroom principles of grammar, spelling when v	word processing on	I	W	W	М	С	С
Know basic page layoutheading, title, body and footer				I	W	М	С
Know how to format a document (i.e. font size, bold, italic, underlin	e, bullet, number)			I	W	М	С
Know how word-wrap works				I	V	М	С
Know how to highlight a word, sentence and line				I	W	М	С
Know how to select and de-select				I	W	М	С
Know how to double space				I	W	М	С
Know how to add a bullet list				I	W	М	С
Know correct spacing after sentences and paragraphs			Ι	W	М	С	С
Know how to use grade-appropriate heading on all Word docs			I	W	М	С	С
Know how to use the thesaurus				ı	W	W	М
Know how to insert header and footer				ı	W	М	С
Know how to insert a border				I	W	М	С
Know how to insert a table				I	W	М	С
Know how to use background/text to alter background and text cold	or when needed			I	W	М	С
Know to put cursor in specific location, ie, for graphic				I	W	М	С
Know how to insert pictures		ı	W	W	W	М	С
Know how to use online video and audio players to access multime	edia content			ı	W	М	С
Know how to use embedded link (Ctrl+click)					I	W	М
Desktop Publishing							
Know when to use Publisher to share information(i.e. create a flyer	r, newsletter, cards)			ı	W	W	W
Know how to plan a publication	, ,	1		ı	W	W	М
Know how to insert a picture, blank page, text box, footer, border				ı	W	W	W
Know how to work with font and color schemes				1	W	W	М

	Presentations	K	1	2	3	4	5	6
	Know when to use PowerPoint			1	W	W	М	С
	Understand how to deliver a professional presentation			I	W	W	М	С
	Know how to add/rearrange slides and auto-advance			ı	W	W	М	С
	Know how to add a variety of backgrounds, animations/movies, effects and transitions			ı	W	W	М	С
	Know how to insert and resize pictures from file, internet, clip-art and position on slide			I	W	W	М	С
	Know how to insert text boxes			I	W	W	М	С
	Spreadsheets							
	Know how to add rows & columns, header & footer, and use basic formatting of data			ı	W	W	W	М
	Know how to add text, graphics, data, color			I	W	W	М	С
	Know how to use shade/fill color and apply border to the cells			I	W	W	М	С
	Know how to add and subtract formulas				I	W	М	С
	Know how to label x and y axis on graphs			ı	W	W	М	С
	Know how to name a chart			ı	W	W	М	С
	Know how to recolor tabs; rename worksheets			ı	W	W	М	С
	Know how to sort data alphabetically			I	W	W	М	С
	Internet							
	Know elements of a web address (i.e. web browser, url, www, domain name, search engine, links)		ı	W	W	W	М	С
	Know how to open a browser and bookmark a webpage or save to Favorites	I	W	W	М	С	С	С
	Know how to use a website—Home and Back button, links, scroll bars, toggle pages, and search in Favorites	ı	W	W	М	С	С	С
	Know how to identify reliable resources (i.e. factual sources)				I	W	W	W
	Digital Storytelling							
	Know how to compose short stories in online tools	ı	W	М	С	С	С	С
	Know how to collaborate and share stories in an online tool		I	W	М	С	С	С
	Know how to use select digital tools to collaborate and publish with peers employing a variety of digital environments and media	ı	W	М	С	С	С	С
	Know how to use drawing software and web-based tools efficiently	ı	W	М	С	С	С	С
-	Know how to insert images/clipart	ı	W	W	W	М	С	С
	Know how to import/upload a file			I	W	М	С	С
	Know how to resize/move/crop/wrap an image/clipart	ı	W	W	W	М	С	С
	Know how to mix text and pictures to convey unique message	I	W	W	W	W	М	С
2	Responsible Use of Technology	K	1	2	3	4	5	6
	nonstrate the responsible use of technology and an understanding of ethics a stronic media at home, in school and in society	nd s	safet	y iss	ues i	n usi	ng	
	Computers and Society							
	Know how to use safe, responsible and ethical behaviors on the internet.			ı	W	М	С	С
	Recognize irresponsible and unsafe practices on the internet				1	W	М	С
	Know how to introduce the concept of 'cyber-bullying' and how to avoid it				1	W	М	С
	Understand plagiarism and how to cite sources				1	W	М	С
	Understand various forms of copyright rules and guidelines		1	W	W	W	W	М
1	The state of the s		<u> </u>	1	1	1		

	Understand netiquette expected on digital citizens	ı	W	М	С	С	С	С
	Know when to keep out of others' files and folders unless permitted	1	W	М	С	С	С	С
E	thics and Society							
	Follow classroom rules for the responsible use of computers peripheral devices, and resources	ı	W	W	М	С	С	С
	Explain the importance of giving credit to media creators when using their work in student projects.	ı	W	W	М	С	С	С
	Explain and follow school rules for safe and ethical Internet use	I	W	W	М	С	С	С
	Explain that a password helps protect the privacy of information	I	W	W	М	С	С	С
3 c	Communication and Collaboration	K	1	2	3	4	5	6
	ents use digital media and environments to communicate/ work collaboration	vely,	inclu	uding	at a	dista	nce,	to
suppo	ort individual learning and contribute to the learning of others.		Π	ı			Ι	T
	Know how to interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media			I	W	М	С	С
	Understand how to communicate information and ideas effectively to multiple audiences using a variety of media and formats	ı	W	М	С	С	С	С
	Develop cultural understanding and global awareness by engaging with learners of other cultures	I	W	W	W	М	С	С
	Know how to compare and contrast documents across varied digital media	ı	W	W	W	М	С	С
	Know how to use technology to produce and publish writing, and interact/collaborate with others	ı	W	W	W	М	С	С
	Explore digital tools to produce and publish writing	ı	W	W	W	М	С	С
	Explore digital tools to collaborate with peers	I	W	W	W	М	С	C
	Know how to use multimedia to aid comprehension	ı	W	W	W	М	С	(
	Know how to ask and answer questions from information presented from various media	ı	W	W	W	М	С	C
	Know how to include audio recordings and multimedia displays to enhance main ideas	I	W	W	W	М	С	С
	Know how to use multimedia to organize ideas, concepts, info to aid comprehension	ı	W	W	W	М	С	C
	Know how to interact, collaborate, and publish with peers employing of digital media			I	W	W	W	٧
	Know how to contribute to project team to produce original work or solve project		I	W	W	W	W	٧
4 R	Research and Information Literacy	K	1	2	3	4	5	6
Stude	nts apply digital tools to gather, evaluate, and use information							•
	Know how to locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media		ı	W	W	W	W	٧
	Evaluate and select information sources and digital tools based on task			I	W	М	С	C
	Understand how to read search results before clicking link			I	W	М	С	(
	Know how to copy-paste from internet for a project with correct citation			ı	W	М	С	(
	Know how to gather relevant information from multiple digital sources			ı	W	W	W	٧
	Assess credibility of digital sources used for research			ı	W	W	W	٧
	Integrate and evaluate information from diverse media			ı	W	W	W	٧
	Know how to use age-appropriate digital media to express information			ı	W	W	W	٧
	Know how to draw on information from multiple digital sources, demonstrating the ability to locate an answer or solve a problem and integrate it into research			I	W	W	W	٧
	Know how to gather information from digital sources, summarize in notes, and provide sources			I	W	W	W	٧

5	Critical thinking, Problem solving and Decision making	K	1	2	3	4	5	6		
	Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources									
	Know when to use appropriate programs: Word Processing, Excel, Publisher and PowerPoint			I	W	М	С	С		
	Plan and manage activities to develop a solution or complete a project that coordinates with classroom units		-	W	W	W	W	М		
	Know how to use web-based calculators, data analysis tools and rulers			I	W	W	М	С		
	Critical thinking & Problem solving									
	Understand how to identify, define authentic problems and questions	ı	W	W	W	W	W	W		
	Know why a particular digital tool is suited to a specific need		I	W	М	С	С	С		