# Computer Applications Skills Continuum (2<sup>nd</sup> Grade)

#### **Standard 1: Creativity and Innovation**

Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students:

- a. apply existing knowledge to generate new ideas, products, or processes
- b. create original works as a means of personal or group expression
- c. use models and simulations to explore complex systems and issues
- d. identify trends and forecast possibilities

Students will continue to practice skills introduced in earlier grade(s) and be introduced to and practice:

KEYBOARDING		
Use proper posture:	Proper body position (sit up straight)	(P)
	Proper position of keyboard (center with body)	(P)
	Correct wrist & elbow placement	(P)
Use two hands while typing:	Left hand for keys on left side of keyboard	(P)
	Right hand for keys on right side of keyboard	(P)
Key in Network ID and Password		(C)
Identify home row keys:	ASDF JKL;	(P)
Use thumbs for spacebar		(P)
Use home row keys	Use correct finger positioning	(P)
Use keys other than home row:	M	(P)
	С	(P)
	1	(P)
	В	(P)
	Р	(P)
	W	(P)
	G	(P)
	Q	(P)
	U	(P)
Use appropriate fingers:	Left Shift	(1)
	Right Shift	(1)
	Backspace	(1)
	Tab	(1)
Use caps lock key properly		(1)
Use punctuation keys correctly:	. Period	(1)
	' Apostrophe	(1)
	, Comma	(1)
	" Quotation Marks	(1)
	; Semicolon	(1)
	: Colon	(1)
Use special keys:	Enter	(C)
	Ctrl-Alt-Delete	(C)
	Esc (escape)	(P)
Use number keys		(C)
Keyboard with a speed of 10 wpm		(P)

WORD PRO	CESSING	
Recognize a word processing document		(P)
Identify the purposes of a word processing document		(P)
Answer questions relating to a word processing		(P)
document		, ,
Edit a word processing document		(P)
Use upper and lower case letters appropriately		(P)
Use correct spacing:	One space between words	(P)
	One space after punctuation	(P)
	Enter key to create blank lines	(P)
	Delete key to delete individual	(P)
	letter/character to the right	
	Backspace to delete individual	(P)
	letter/character to the left	
	Backspace or Delete key to delete blank	(P)
	lines	
	Line Spacing	(1)
Point and click with mouse		
Place the cursor for editing purposes		(C)
Highlight/Select text and apply changes:	Change the font	(P)
	Change the size of text	(P)
	Change the text color	(P)
Highlight/Select text and apply style changes:	Bold	(P)
	Underline	(P)
	Italics	(P)
Use spell check to check a document		(P)
Set page margins		(1)
Change page orientation:	Landscape	(1)
	Portrait	(1)
Insert a page number		(1)
Use tab key to indent paragraph		(P)
Utilize Toolbars:	Drawing	(1)
	Standard	(1)
	Formatting	(1)
Insert picture/clip art		(P)
Format picture/clip art		(P)
Align picture/clip art		(P)
Create:	Brochure	(1)
	Newsletter	(1)
SPREADS	HEET	
Recognize a spreadsheet document:	Cell	(P)
	Cell Address	(P)
	Row	(P)
	Column	(P)
	Label	(P)
Answer questions using a spreadsheet		(P)
Identify purposes of a spreadsheet		(P)
Given specific directions, enter data into a spreadsheet:	Using a template	(P)
-	Titles	(P)
	Column labels	(P)

	Row labels	(P)
	Use a blank spreadsheet	(1)
Identify the active cell	·	
Move cell data:	Cut	(P)
	Сору	(P)
	Paste	(P)
	Delete	(P)
	Insert row(s)	(1)
	Insert column(s)	(1)
	Insert a chart	(1)
	Delete row(s)	(1)
	Delete column(s)	(1)
	Move data in columns and/or rows	(1)
Format data in a cell:	Font	(P)
	Size	(P)
	Color	(P)
	Style	(P)
	Numbers	(1)
	Currency	(1)
Select/Highlight data in a spreadsheet	Select cells, entire row, entire column, and	(1)
	cells for making a chart/graph	
Charts/Graphs:	Answer questions using a computer-	(P)
	generated chart/graph	
	Use charts/graphs	(P)
	Identify the purpose of charting data	(P)
	Column	(1)
	Bar	(1)
Use a prepared spreadsheet to create a graph		
As a class, use a graph to produce results and make		(P)
informed decisions to answer real life questions		
Insert a spreadsheet and/or chart into a presentation		(P)
PRESENT <i>A</i>	ATION	
Create multimedia projects individually or as a class		(P)
activity using age-appropriate software		
Create a simple presentation		(P)
Insert:	New slide	(P)
	Textboxes	(P)
	Picture from clip art	(P)
	Picture from a file	(P)
	Word Art	(P)
Format:	Background color	(P)
	Slide design	(P)
Setup presentation/show:	Slide Show	(P)
Delete	Slide	(P)
DATABA	ASE	
Define database	Record	(1)
	Field	(1)
Search a database to retrieve specific information		(1)
Use logical operators to refine searches:	= , < , > , And, Or, Not	(1)
Answer comprehension questions using a given		(1)
		1.1

electronic resource	
Analyze data from an electronic resource and present	(I)
conclusions	

#### Standard 2: Communication and Collaboration

Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others. Students:

- a. interact, collaborate, and publish with peers, experts, or others, employing a variety of digital environments and media
- b. communicate information and ideas effectively to multiple audiences using a variety of media and formats
- c. develop cultural understanding and global awareness by engaging with learners of other cultures
- d. contribute to project teams to produce original works or solve problems

Students will continue to practice skills introduced in earlier grade(s) and be introduced to and practice:

practice:		
TELECOMMUNICATIONS		
Define telecommunications		
Use templates to present written communication		(C)
Identify how the community uses telecommunications	Business, library, educational institutions &	(1)
in everyday activities:	government	
E-MA	IL	
Define e-mail		(P)
Define netiquette		(1)
Understand and use netiquette:	Use language that does not include	(P)
	profanity, socially insensitive remarks or	
	insults	
PRESENTA	ATION	
Explain the purpose of a presentation:	Communication	(P)
	Show knowledge of content subject	(P)
	Publish/Share information	(P)
Create and publish products collaboratively for	Multimedia or presentation	(1)
audiences inside and outside the classroom using		
technology tools		
Use technology communication to participate in online	CSILE, JCPSonline	(1)
group projects and learning activities:		
Use templates to present written communication		(P)

#### **Standard 3: Research and Information Fluency**

Students apply digital tools to gather, evaluate, and use information. Students:

- a. plan strategies to guide inquiry
- b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media
- c. evaluate and select information sources and digital tools based on the appropriateness to specific tasks
- d. process data and report results

Students will continue to practice skills introduced in earlier grade(s) and be introduced to an	d
practice:	

Demonstrate knowledge of appropriate use of the	Education-based research (e.g. gathering	(P)
Internet:	data)	

	Define appropriate, inappropriate web	(1)
	sites	
Identify and/or use Internet terms:	Home Page	(P)
	Favorites/Bookmarks	(P)
	Home Icon/Home Button	(P)
	Address Bar	(P)
	Links	(P)
	Back	(P)
	Forward	(P)
	Stop	(P)
	Refresh	(P)
	World Wide Web	(P)
	Browser	
	URL	(P)
	Search Engine	(1)
Identify parts of a URL:	http://	(P)
	www	(P)
Open web browser; use Home, Back & Forward buttons		(P)
Identify JCPS Home Page		(P)
Enter a URL		(P)
Understand the function of links (hyperlinks)		(P)
Use links	Displayed in text & graphic format	(P)
Demonstrate knowledge of Information Technology:	JCPSonline scrimmages, quizzes, etc.	(P)
Use multimedia resources to support learning:	Interactive books, educational software,	(P)
	elementary multimedia	
Discuss the Internet as a source of information at		(P)
school, home and at the public library		

### Standard 4: Critical Thinking, Problem Solving, and Decision Making

Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. Students:

- a. identify and define authentic problems and significant questions for investigation
- b. plan and manage activities to develop a solution or complete a project
- c. collect and analyze data to identify solutions and/or make informed decisions
- d. use multiple processes and diverse perspectives to explore alternative solutions

### Students will continue to practice skills introduced in earlier grade(s) and be introduced to and practice:

As a team or individually, employ technology in the	Use an electronic database to gather	(P)
development of strategies for solving problems in the	resources to answer essential questions	
real world:		
Use appropriate technology tools to successfully engage		(P)
in higher-order thinking activities		

#### **Standard 5: Digital Citizenship**

Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior. Students:

- a. advocate and practice safe, legal, and responsible use of information and technology
- b. exhibit a positive attitude toward using technology that supports collaboration, learning, and productivity
- c. demonstrate personal responsibility for lifelong learning
- d. exhibit leadership for digital citizenship

Students will continue to practice skills introduced in earlier grade(s) and be introduced to and
practice:

practice:		
Identify and demonstrate knowledge of the Nine	Digital Rights & Responsibilities (e.g. AUP,	(P)
Elements of Digital Citizenship:	citing sources, cheating, cyberbullying)	
	Digital Health & Wellness (e.g. carpal	(P)
	tunnel, eye strain, poor posture, addiction)	
	Digital Security (e.g. virus protection,	(P)
	backups, personal information, hackers,	
	identity theft)	
Acknowledge ownership of own work:	Put name on work, etc.	(C)
Explain that one must have permission to use another		(P)
person's work or any part of that person's work		
Identify the copyright symbol	©	(P)
Sign and discuss the JCPSNet User Agreement Form		(C)
Explain that a good citizen is a person who follows rules		(P)
in a community. A cyber citizen obeys the rules of the		
online cyber community.		
Discuss how a stranger can pretend to be a friend in		(P)
cyberspace		
Identify a stranger as someone whom you and your		(P)
parents don't know		
Identify the characteristics of personal information		(P)
Explain potential risks to personal safety when		(P)
supplying personal information, choosing a screen name		
and selecting a password		
Discuss the importance of ethical, responsible and safe		(P)
behavior when using networked digital information		
As a class/group or individual, recognize, discuss and		(P)
model responsible and safe behavior using online		
resources		
Describe what to do when an unintended web site is		(P)
entered		
Explain why a password needs to be kept secret:	Someone could delete your files	(P)
	Someone could send an offensive message	(P)
	from your e-mail account	
	Someone could change your password and	(P)
	you could no longer log on	
Discuss the importance of being a responsible citizen		(P)
when using technology		
Participate in Internet projects		(P)
Discuss and follow the five Safety Tips published by the	Never give out personal information such	(P)
FBI for protecting oneself online:	as your name, home address, school name	
	or telephone number in a chat room or on	
	bulletin boards. Also, never send a picture	

	of yourself to someone you chat with on	
	the computer without your parent's	
	permission.	
	Never write to someone who has made	(P)
	you feel uncomfortable or scared.	
	Never meet someone or have them visit	(P)
	you without the permission of your	
	parents.	
	Tell your parents right away if you read	(P)
	anything on the Internet that makes you	
	feel uncomfortable.	
	Remember that people online may not be	(P)
	who they say they are. Someone who says	
	that "she" is a "12-year-old girl" could	
	really be an older man.	
Use internet safety skills		(P)
Respect other people's point of view and ideas when		(P)
completing a class project		
Explain why computers and/or other technologies are		(P)
used for learning		
Define cyberbullying		
Compare and contrast the critical attributes of bullying:	Real-world & virtual world	(P)
Understand the procedures of how to report		(P)
cyberbullying		

#### **Standard 6: Technology Operations and Concepts**

Students demonstrate a sound understanding of technology concepts, systems, and operations. Students:

- a. understand and use technology systems
- b. select and use applications effectively and productively
- c. troubleshoot systems and applications
- d. transfer current knowledge to learning of new technologies

## Students will continue to practice skills introduced in earlier grade(s) and be introduced to and practice:

Distinguish between hardware and software:	Identify CPU, Hand-held computer, RAM,	(C)
	Palmtop	
Identify:	Monitor	
	Mouse	
	Disk drive	
	External disk drive	
	Projector	
Describe and demonstrate proper care of equipment:	Keep food, drinks & magnets away from	(C)
	equipment	
	Keep your hands clean	(C)
	Not writing on equipment	(C)
APPLICA	TIONS	
Create products for content area assignments using		(P)
appropriate technology		
Follow on-screen directions		(P)
Use proofreading and electronic editing skills		(P)
Start up and shut down computer		(C)
Log on/in:	Ctrl-Alt-Delete	(C)

	UserID/Password	(C)
Use mouse click to make selections		
Use click & drag to move items on a page		
Use right & left click when applicable		
Select an item from :	Menu bar	(P)
	Drop down menu	
	Toolbar	(P)
Open applications:	File – Open	(P)
	Start - Program Files	(P)
Quit applications:	File – Quit/Exit	(P)
	Click "X" on Windows	(P)
Identify open application on taskbar		
Close document leaving application open		(P)
Save		(P)
Save with assistance		(P)
Identify the recycle bin & explain its purpose		
Navigate to open a file from different sources and save	Disk, folder, etc.	(1)
to specific location:		
Open a new document		(P)
Navigate to open a saved document		(1)
Print with assistance		
Print documents		(P)
REMOVABI	LE MEDIA	
Care and Handling:	Compact Disc, Digital Video Disc, Data Disk	(C)
	Load correctly	(C)
	Remove correctly	(C)
	Explain the use of a disk, CD & DVD	(P)
FILE	S	
Navigate to open a file from different sources:	Application	(P)
Travigate to open a me nom amerent sources.	Disk	
	CD	(P)
	Desktop	(1)
Identify file formats:	.doc	(1)
	.xls	(1)
	.ppt	(1)
Save documents as a variety of file types to move data	.doc	(1)
across platforms:		(-)
•	.xls	(1)
	.ppt	(1)
Use basic troubleshooting techniques:	Determine if all equipment is turned on &	(P)
	plugged in	
	Check mouse connection	(P)
	Check keyboard connection	(P)
	Check plugs/cables (plug in both ends;	(1)
	check for loose plugs)	(*)
Print with options:		(1)
Print with options:	Print a specific page	1 (1)
Print with options:	Print a specific page Print a specific # of copies	(P)