

Technology

Grade 2

Standard 1	Fundamental Operations and Concepts
Students understand the operations and function of technology systems and are proficient in the use of technology.	
Concepts	
T00- S1C1 Basic Technology Components (1T-R1)	Communicate about basic technology components using developmentally appropriate and accurate terminology
T02- S1C1 Internal Technology Operations (1T-F1)	Communicate about internal technology operations using developmentally appropriate and accurate terminology
T02- S1C2 Functional Technology Components (1T-F2)	Demonstrate functional operation of technology components
T02- S1C3 Technology Resources (1T-F3)	Use developmentally appropriate technology resources to access information and communicate electronically

Students should know and be able to...					
Concept Number	Concept	PO No.	Performance Objective	Vocabulary	Notes/Support Materials
S1C1 (1T-R1)	Basic Technology Components: <i>Communicate about basic technology components using developmentally appropriate and accurate terminology</i>	1	<i>Use basic vocabulary related to the use of technology (e.g., mouse, keyboard, monitor, toolbar, menu, window, folder, icon, spreadsheet, word processor, cassette player, CD player versus DVD versus video tape, video camera)</i> - login (log- in), log off, cursor, scroll, scroll bar, hourglass/ watch (busy), word processing, Internet, maximize, network, directory, file, open file, minimize, edit, hardware, software, copyright, text, graphic		Tekki Time*

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S1C1 (1T-R1)	<p><i>Basic Technology Components:</i></p> <p>Communicate about basic technology components using developmentally appropriate and accurate terminology</p>	2	<p>Identify the components of a computer (e.g., mouse, keyboard, monitor, CPU, printer)</p> <ul style="list-style-type: none"> - headphones, speakers, - digital camera (if available at site, scanner (if available at site), file server 		Carnival Countdown Software
S1C1 (1T-F1)	<p>Internal Technology Operations:</p> <p>Communicate about internal technology operations using appropriate and accurate terminology developmentally</p>	1	<p>Apply basic vocabulary related to the internal operations of the technology (e.g., disks, drives, RAM, ROM, CD-ROM port, CD-ROM and DVD)</p> <ul style="list-style-type: none"> - disk - drive - CD-ROM - DVD <p><i>T: Disk: Media that stores computer information. There are two basic types: hard disks (or drives) and floppy disks.</i></p> <p><i>T: Drive: Any device that reads and writes information, such as a hard drive, floppy drive, CD ROM drive or tape drive</i></p> <p><i>T: Hard Drive: The primary storage device for your computer. Also called hard disk. It is where applications, utilities and files are stored.</i></p> <p><i>T: Floppy Disk: A 3.5 inch removable disk that's flexible (although it's protected by a hard plastic case). Also called a diskette.</i></p>	<p><i>Disk, drive, floppy disks</i></p> <p>CD-ROM, DVD</p>	

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S1C1 (1T-F1)	Internal Technology Operations: Communicate about internal technology operations using appropriate and accurate terminology developmentally		<p>T: CD-ROM: (Compact Disc – Read Only Memory) A CD-ROM format used to store large amounts of information. A flat round disc that is used to store digital data. The disc is read by a laser. You can only read information on a CD. You cannot record information on a CD.</p> <p>T: DVD: Digital video disk; a type of compact disc that holds far more information than the CD-ROMs. A DVD can hold a minimum of 4.7 GB, enough for a full-length movie.</p>		
S1C2 (1T-F2)	Internal Technology Operations: Demonstrate functional operation of technology components	1	<p>Demonstrate correct ergonomic use of technology (e.g., correct posture, position of hands and feet, proper height of keyboard, proper lifting and moving of equipment) When seated at the computer correct posture includes:</p> <ul style="list-style-type: none"> - <i>Shoulders down, arms relaxed</i> - <i>Feet and legs facing forward</i> - <i>Fingers curved</i> 		
		2	<p>Use multimedia resources (e.g., interactive books, educational software, elementary multimedia encyclopedias)</p> <ul style="list-style-type: none"> - <i>Open, close, and save files from educational software</i> - <i>Use grade level appropriate interactive books</i> - <i>Use grade level appropriate educational software</i> 		Accelerated Reading Software, Math Workshop, Mighty Math Carnival, Kid Pix

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S1C2 (1T-F2)	Internal Technology Operations: Demonstrate functional operation of technology components	3	Access information sources (e.g., CD-ROMs, encyclopedias, pre-bookmarked Internet sites) <ul style="list-style-type: none"> - <i>Use grade level appropriate CD-ROMS</i> - <i>Use grade level appropriate pre- bookmarked Internet sites</i> 		MPS Educational Technology Resources Web site – 2nd grade*
S1C3 (1T-F3)	Technology Resources: Use developmentally appropriate technology resources to access information and communicate electronically	1	Operate keyboard and other common input and output devices (including adaptive devices for special needs when necessary) a) Use device in response to software (e.g., point and click, arrow and enter/return keys) <ul style="list-style-type: none"> - <i>Single-click</i> - <i>Double-click</i> - <i>Left-click mouse</i> - <i>Lift and move mouse</i> - <i>Enter/return keys</i> - <i>Arrow</i> - <i>Shift</i> - <i>Spacebar</i> - <i>Backspace</i> - <i>Esc (escape key)</i> - <i>Tab</i> 		

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S1C3 (1T-F3)	Technology Resources: Use developmentally appropriate technology resources to access information and communicate electronically		<p>b) Use keyboard effectively (e.g., knows locations and function of keys, begins touch-typing strategies by grade three)</p> <ul style="list-style-type: none"> - Recognize and locate alphabetic keys - Recognize and locate numeric keys - Left hand for left side keys and right hand for right side keys - Recognize and locate punctuation keys 		
		2	<p>Retrieve and save information (e.g., text documents, digital photos, music, video)</p> <ul style="list-style-type: none"> - Save files to floppy disks or local hard drive (if required at school site) - Save files to file server 	file server	
		3	<p>Print documents, text or image</p> <ul style="list-style-type: none"> - Use local or networked printers <p><i>T: Local printer: a printer that is connected directly to a computer.</i></p> <p><i>T: Networked printer: a printer that is connected to more than one computer</i></p>		
		MPS4	<p><i>Demonstrate correct operating procedures</i></p> <ul style="list-style-type: none"> - Start up and shut down – Turn hardware on/off independently (if required at school site) 		

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S1C3 (1T-F3)	Technology Resources: Use developmentally appropriate technology resources to access information and communicate electronically	<i>MPS5</i>	<i>Practice responsible use of networked computer (if required at school site)</i> <ul style="list-style-type: none"> - <i>Use log-in numbers/user names/password</i> - <i>Use Log Off</i> 	<i>user name</i>	

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Standard 2 Social, Ethical and Human Issues Students understand the social, ethical and human issues related to using technology in their daily lives and demonstrate responsible use of technology systems, information and software.	
Concepts	
T02- S2C1 Respect for Other Students (2T-F1)	Demonstrate respect for other students while using technology
T02- S2C2 Responsible Use of Software (2T-F2)	Practice responsible use of software
T02- S2C3 Common Uses (2T-F3)	Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide
T02- SMPS2C4 Responsible Use of Hardware	Practice proper care of hardware

Students should know and be able to...					
Concept Number	Concept	PO No.	Performance Objective	Vocabulary	Notes/Support Materials
S2C1 (2T-F1)	Respect for Other Students: Demonstrate respect for other students while using technology	1	Describe and practice respect for other students while using technology (e.g., do not duplicate software or documents without authorization; report behaviors that threaten the ability of others to legitimately use resources; allow peers to work uninterrupted; do not erase or damage files, documents or projects) - <i>Allow peers to work uninterrupted</i> - <i>Keep hands and feet to self</i>	<i>uninterrupted</i>	

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Concept Number	Concept	PO No.	Performance Objective	Vocabulary	Notes/Support Materials
S2C2 (2T-F2)	Responsible Use: Practice responsible use of software	1	Use equipment appropriately (e.g., use for assignments and school work versus personal pleasure; do not send threats) <i>- Use software that reinforces curriculum</i>	<i>documents</i>	
		2	Describe and practice legal and ethical behaviors when using technology (e.g., do not copy, alter, delete or move another person's work) <i>- Use only your documents and folders</i> <i>- Do not copy other student's work</i>		
		3	Demonstrate and practice safe and correct security procedures (e.g., protect password) <i>- Protect user name and password</i>		
S2C3 (2T-F3)	Common Uses: Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide	1	Describe three-to-five uses of technology in daily life <i>- Describe three uses of technology</i> <i>- Describe four uses of technology</i>		
		2	Discuss the positive and negative impact of technologies such as television and computers on daily life (e.g., negative health impact; safe Internet use, such as knowing what information is safe to share when using e-mail, "talking" to strangers) <i>- Describe one positive and one negative use of technology</i> <i>- Use only teacher approved Internet sites</i>		

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Concept Number	Concept	PO No.	Performance Objective	Vocabulary	Notes/Support Materials
T02-SMPS2 C4	Responsible Use of Hardware Practice proper care of hardware	1	Demonstrate proper care of hardware (computer, peripherals, other equipment) and media. <ul style="list-style-type: none"> - <i>Use clean hands</i> - <i>Have a clean work area</i> - <i>No magnets, drink or food around computer</i> <p><i>T: Peripheral: A device that can communicate directly with a computer, such as printers, scanners, cameras, CD-ROMs and laserdisc players.</i></p>		

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Standard 3 Technology Productivity Tools Students use technology tools to enhance learning, to increase productivity and creativity, and to construct technology-enhanced models, prepare publications and produce other creative works.	
Concepts	
T02- S3C1 Writing and Drawing Tools (3T-F1)	Use prescribed technology writing or drawing tools for communicating and illustrating
T02- S3C2 Data Collection and Analysis (3T-F2)	Use prescribed technology tools for data collection and basic analysis
T02- S3C3 Publishing and Presenting (3T-F3)	Use prescribed technology tools for publishing and presenting information

Students should know and be able to...					
Concept Number	Concept	PO No.	Performance Objective	Vocabulary	Notes/Support Materials
S3C1 (3T-F1)	Writing and Drawing Tools Use prescribed technology writing or drawing tools for communicating and illustrating	1	Use word processing to create a document and, where developmentally appropriate, use editing tools <ul style="list-style-type: none"> - Create a new document - Type alphabetic letters and numbers - Type words and sentences - Format/edit documents <ul style="list-style-type: none"> o Select/change font styles and size o Use proper spacing o Use backspace or arrow keys to perform basic editing o Indent 	<i>font, edit</i>	Appleworks Software Kid Pix Software Microsoft Office Software Your Name in an Acrostic Poem* Be a Professional Proofreader*

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Students should know and be able to...					
Concept Number	Concept	PO No.	Performance Objective	Vocabulary	Notes/Support Materials
S3C1 (3T-F1)	Writing and Drawing Tools Use prescribed technology writing or drawing tools for communicating and illustrating	2	<ul style="list-style-type: none"> o Justify text - Save a document - Print and close documents - Open a saved document <p>Insert a graphic into a word processing document</p> <ul style="list-style-type: none"> - Insert a graphic - Resize graphic 	graphic	AppleWorks Software Kid Pix Software Microsoft Office Software Three Pigs*
		MPS3	<p><i>Use appropriate techniques for creating drawing documents</i></p> <ul style="list-style-type: none"> - Generate a simple picture using basic paint or draw tools - Create simple geometric shapes - Create simple patterns (i.e. ABAB) with pictures - Create a pictograph - Insert a graphic or picture - Use copy, paste and undo features - Click and drag an object - Label a graphic - Resize a graphic <p><i>T: Drawing Document: In a drawing document, you work with objects. An object can be a shape, line, or curve that you create with the drawing tools. Objects can include items such as frames, clip art, photographs, movies, or sounds. Working with drawing documents is like creating a collage, with objects that you can easily position, layer, and rearrange.</i></p> <p><i>T: Word Processing: A computerized method of writing, editing, saving, and printing text.</i></p>	geometric, pictograph	

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Concept Number	Concept	PO No.	Performance Objective	Vocabulary	Notes/Support Materials
S3C2 (3T-F2)	Data Collection and Analysis Use prescribed technology tools for data collection and basic analysis	1	Use a spreadsheet or database application to perform simple data analysis (e.g., comparisons, collections, graphs and charts)		
S3C3 (3T-F3)	Publishing and Presenting Use prescribed technology tools for publishing and presenting information	1 2	<p>Use a pre-designed template or stationery to publish a document (e.g., newsletter, slide show, greeting card, certificate)</p> <ul style="list-style-type: none"> - Write a simple note or letter using a template - Write a greeting card using a template <p>Create a multimedia product with support from teachers, family or student partners (e.g., slide show, hyperstack, video)</p> <ul style="list-style-type: none"> - Create a simple slideshow with support from teachers using a template 	slideshow template	<p>AppleWorks Software Kid Pix Software Microsoft Office Software Microsoft Publisher Software</p> <p>Desert Animal Research*</p> <p>Informational Report on a Desert Animal*</p> <p>Cloudy With a Chance of Meatballs*</p>

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Standard 4 Technology Communications Tools Building on productivity tools, students will collaborate, publish, and interact with peers, experts and other audiences using telecommunications and media.	
Concepts	
T02- S1C1 Telecommunications (4T-F1)	Communicate with others using telecommunications, with support from teachers, family members or student partners
T02- S1C2 Technology Products (4T-F2)	Use technology tools for individual and collaborative communication activities to share products with audiences inside and outside the classroom

Students should know and be able to...					
Concept Number	Concept	PO No.	Performance Objective	Vocabulary	Notes/Support Materials
S1C2 (4T-F2)	Technology Products: Use technology tools for individual and collaborative communication activities to share products with audiences inside and outside the classroom	1	Plan, design, and present an academic product to classroom or community (e.g., slideshow, progressive story, drawings, story illustrations, video production, digital images) <i>- Share computer generated drawings with others</i> <i>- Share simple slideshow created with template and support from teacher (see 3T-F3, PO 2)</i>		Three Pigs* Cloudy With a Chance of Meatballs*

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Standard 5 Technology Research Tools
Note: The performance objectives described in Standard 5 rely upon the mastery of skills and understanding of concepts from Standards 1-4 of this document

Students will utilize technology-based research tools to locate and collect information pertinent to the task as well as evaluate and analyze information from a variety of sources.

Concepts

T02- S1C1 Electronic Information
(5T-F1) **Recognize electronic information sources**

Students should know and be able to...

Concept Number	Concept	PO No.	Performance Objective	Vocabulary	Notes/Support Materials
S1C1 (5T-F1)	Electronic Information: Recognize electronic information sources	1	Identify potential sources of information about a topic (e.g., video or cassette tapes, Web pages, CD-ROMs)	<i>website</i>	MPS Educational Technology Resources Web site - Animals*
		2	Locate information in a resource selected by the teacher (e.g., Web page, CD-ROM) - <i>Utilize information from age-appropriate websites, portals and/or safe search engines</i> <i>T: Portal: A web page that serves as a point of entry to the World Wide Web</i> <i>T: Search Engine: A program that searches documents for specified keywords and returns a list of the documents where the keywords were found. Suggested search engines that are considered to be "safe" (from inappropriate content) include yahooligans and kids click</i>		

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<p>Standard 6 Technology as a Tool for Problem Solving and Decision-making Note: Problem solving is inherent in all disciplines. Technology Standard 6 is designed to provide a cumulative (capstone) experience</p> <p>Students use technology to make and support decisions in the process of solving real-world problems.</p>	
<p>Concepts</p> <p>T02- S6C1 Problem Solving (6T-F1) Use technology resources for problem solving, self-directed learning and extended learning activities</p>	

Students should know and be able to...					
Concept Number	Concept	PO No.	Performance Objective	Vocabulary	Notes/Support Materials
S6C1 (6T-F1)	Problem Solving: Use technology resources for problem solving, self-directed learning and extended learning activities	1	Based on a class-defined problem, use technology to: a) collect data b) interpret data c) express a solution to the problem		
		2	Based on a problem selected by the student, use technology to: a) collect data b) interpret data c) express a solution to the problem		

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