

National Standards NETS	Mass DOE Standards Grades K-5	Mass DOE Performance Indicators (Exploratory Concepts and Skills) K-5	Sample CPS Curriculum Connections K-5
Standard 1: Basic Operations and Concepts Standard 3: Productivity Tools	Standard 1. Demonstrate proficiency in the use of computers and applications as well as an understanding of concepts underlying hardware, software, and connectivity.	1.11 Identify components of a computer system, understand their functions, and use appropriate terminology in speaking about them (e.g., Apple vs Windows OS, memory vs storage, window).	PK-5 Introduction to classroom computer, orientation to computer lab, orientation to mobile labs, orientation to curriculum-based software
		1.12 Identify and use basic features of a computer operating system (e.g., format/initialize disks, access information on size and format of a file, create folders).	PK-5 Introduction to classroom computer, orientation to computer lab, orientation to mobile labs, orientation to curriculum-based software
		1.13 Save a file to a specific location (e.g., floppy disk, documents folder, mounted volumes).	PK-5 Introduction to classroom computer, orientation to computer lab, orientation to mobile labs, orientation to curriculum-based software
		1.14 Select a printer and print a document with appropriate page setup and orientation.	PK-5 Introduction to classroom computer, orientation to computer lab, orientation to mobile labs, orientation to curriculum-based software
		1.15 Operate peripheral equipment (e.g., scanner, digital camera, camcorder).	Grades 3-5 Introduction to classroom computer, orientation to computer lab and orientation to mobile labs: Plants, Weather, Houses, Ghana, Rocks and Minerals, Poetry, Disasters, Colonial America, Geometry, USB Microscopes, Animal Research, Family Tree, Magazine Project, Media Literacy, Health Commercials, Biographies, Music Retrospective, Astronomy, Art Retrospective, Classroom Retrospectives
		1.16 Develop efficient keyboarding technique (goal of 35wpm w/90% accuracy).	Grade 4 Type To Learn keyboarding software; Grade 5 review of keyboarding
		1.17 Identify and use editing and formatting features of a word processing program (e.g., centering, line spacing, margins, cut and paste, fonts, styles, spelling, page numbers).	Grades 1-5 Numerous research and writing process activities using AppleWorks, Kid Pix, Easybook
		1.18 Insert images (e.g., graphics, clip art, tables) from other files into word-processed (or other) document.	Grades 2-5 Numerous research and curriculum activities using AppleWorks, Kid Pix, Easybook: Weather, Bear Research, Rocks and Minerals, Poetry, Disasters, Colonial America, Egypt, Explorers, Iditarod Research, Geometry, Native Americans, Magazine Project, Family Tree, Animal Research, Astronomy, Renaissance, Human Anatomy
		1.19 Describe structure and function of database and identify components (e.g., record, field).	Grades 4-5 Data Collection activities using Appleworks: Media Literacy, Book Reviews, Milk Study, Shoe Research

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		1.20 Perform simple operations in a database (e.g., browse, sort, search, delete, add data).	Grades 4-5 Data Collection activities using Appleworks: Media Literacy, Book Reviews, Milk Study, Shoe Research
		1.21 Create an original database, defining field formats and adding new records.	Grades 4-5 Data Collection activities using Appleworks: Media Literacy, Book Reviews, Milk Study, Shoe Research
		1.22 Describe structure and function of spreadsheet (e.g., cells, rows, columns, formulas) and apply formatting features.	Grades 2-5 Numerous Data Collection activities using Appleworks
		1.23 Create an original spreadsheet, entering simple formulas.	Grades 2-5 Data Collection activities using Appleworks
		1.24 Produce simple charts from spreadsheet.	Grades 2-5 Numerous Data Collection activities using Appleworks
		1.25 Identify and use navigation features of browser (e.g., "go," "back," "forward", open new window).	Grades 1-5 Numerous research and curriculum activities using Internet Explorer
		1.26 Using a browser, "bookmark" a Web site for future reference. Organize bookmarks.	Grades 1-5 Numerous research and curriculum activities using Internet Explorer
		1.27 Identify basic elements of a Web site (e.g., URL, hyperlinks, site map, frames, suffixes, etc.).	Grades 1-5 Numerous research and curriculum activities using Internet Explorer
		1.28 Copy an image from a Web site into a file on the desktop; write a correct citation caption in keeping with copyright law.	Grades 2-5 Numerous research and curriculum activities using AppleWorks, Kid Pix, Easybook: Weather, Bear Research, Rocks and Minerals, Poetry, Disasters, Colonial America, Egypt, Explorers, Iditarod Research, Geometry, Native Americans, Magazine Project, Family Tree, Animal Research, Astronomy, Renaissance, Human Anatomy
		1.31 Use correct terminology in speaking about electronic communications (e.g., browser, search engine, online).	PK-5 Introduction to classroom computer, orientation to computer lab, orientation to mobile labs, orientation to curriculum-based software
		1.32 Create a slide presentation using appropriate applications.	Grades 2-5 Numerous research and curriculum activities using AppleWorks, Kid Pix, iMovie, Hyperstudio: Bear Research, Poetry, Disasters, Iditarod Research, Colonial America, Native Americans, Renaissance, Weather, Egypt, Astronomy, Folktales, Geometry, Media Literacy, Health Commercials

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		1.33 Identify and use drawing and painting applications as appropriate for class projects.	Grades K-5 Numerous curriculum activities using AppleWorks, Kid Pix, Easybook: Poetry, Writing Process, Plants, Rocks and Minerals, Disasters, Bear Research, Weather, Egypt, Colonial America, Data Collection, Folktales, Iditarod Research, Geometry, Native Americans, Renaissance, Vikings, Astronomy
		1.34 Identify appropriate applications for a classroom project.	PK-5 Introduction to classroom computer, orientation to computer lab, orientation to mobile labs, orientation to curriculum-based software
Standard 2: Social, Ethical, and Human Issues	Standard 2. Demonstrate responsible use of technology and an understanding of ethics and safety issues in using electronic media.	2.6 Explain and demonstrate understanding of classroom rules regarding responsible use of computers (responsible behavior around equipment, respect for other people's work, and appropriate collaborative behavior).	PK-5 Introduction to classroom computer, orientation to computer lab, orientation to mobile labs, orientation to curriculum-based software
		2.7 Explain and demonstrate ethical and legal behavior in copying files, applications, and media.	Grades 2-5 Introduction to classroom computer, orientation to computer lab, orientation to mobile labs, orientation to curriculum-based software
		2.8 Explain potential problem of computer viruses and exercise caution in opening e-mail attachments from unknown sources. (Use of e-mail is at district discretion.)	no student email access
		2.9 Explain safe practices for sharing personal information via e-mail and the Internet. (Use of e-mail is at district discretion.)	no student email access
		2.11 Describe and demonstrate knowledge of the school's Acceptable Use Policy, and know the consequences of violating that policy.	PK-5 Introduction to classroom computer, orientation to computer lab, orientation to mobile labs, orientation to curriculum-based software: Acceptable Use Policy sent home and signed for all Kindergarten students and all other new students
		2.12 Validate a Web site for authenticity (e.g., find site sponsor, author, and date the site was last updated).	Grades 2-5 Numerous research and curriculum activities using AppleWorks, Kid Pix, Easybook: Weather, Bear Research, Rocks and Minerals, Poetry, Disasters, Colonial America, Egypt, Explorers, Iditarod Research, Geometry, Native Americans, Magazine Project, Family Tree, Animal Research, Astronomy, Renaissance, Human Anatomy
		2.13 Explain how media and technology can be misused to distort or exaggerate information.	Grades 2-5 Numerous research and curriculum activities using AppleWorks, Kid Pix, Easybook: Weather, Bear Research, Rocks and Minerals, Poetry, Disasters, Colonial America, Egypt, Explorers, Iditarod Research, Geometry, Native Americans, Magazine Project, Family Tree, Animal Research, Astronomy, Renaissance, Human Anatomy

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		2.14 Write correct citations for text and images gathered from electronic sources. Understand that use of materials is limited by the fair use rule of copyright law.	Grades 3-5 Numerous research and curriculum activities and Library lessons: Bear Research, Disasters, Iditarod Research, Egypt, Colonial America, Native Americans, Renaissance, Animal Research, Weather, Magazine Project
		2.15 Develop an awareness of the issue of ergonomics (e.g., Repetitive Stress Injuries) and how to use equipment safely.	PK-5 Introduction to classroom computer, orientation to computer lab and orientation to mobile labs: Keyboarding
Standard 3: Productivity Tools Standard 4: Communication Tools Standard 5: Research Tools Standard 6: Problem-Solving and Decision-Making Tools	Standard 3. Demonstrate ability to use technology for research, problem-solving, and communication. Students locate, evaluate, collect, and process information from a variety of electronic sources. Students use telecommunications and other media to interact or collaborate with peers, experts, and other audiences.	3.6 In keeping with the research process outlined in Standard 24 of the English Language Arts Curriculum Framework (<i>Students will gather information from a variety of sources, analyze and evaluate the quality of the information they obtain, and use it to answer their own questions.</i>), identify electronic sources of information (e.g., Internet, CD-ROM, online periodical databases, and online catalogs).	Grades 2-5 Numerous research and curriculum activities using AppleWorks, Kid Pix, Easybook: Weather, Bear Research, Rocks and Minerals, Poetry, Disasters, Colonial America, Egypt, Explorers, Iditarod Research, Geometry, Native Americans, Magazine Project, Family Tree, Animal Research, Astronomy, Renaissance, Human Anatomy
		3.7 Use search engines effectively to find relevant, unbiased, and current information on a subject. (Standard 2 performance indicators apply—i.e., evaluate Web sites and write correct citations for sources.)	Grades 2-5 Numerous research and curriculum activities using AppleWorks, Kid Pix, Easybook: Weather, Bear Research, Rocks and Minerals, Poetry, Disasters, Colonial America, Egypt, Explorers, Iditarod Research, Geometry, Native Americans, Magazine Project, Family Tree, Animal Research, Astronomy, Renaissance, Human Anatomy
		3.8 Organize information that is collected using a variety of tools (e.g., spreadsheet, database, graphic organizers, saved files).	Grades 2-5 Numerous research, writing process, and other curriculum activities using Appleworks templates, Inspiration templates, Draftbuilder, TERC Geo-Logo, Zoombinis: Math, Media Literacy, Data Collection, Book Reviews, Milk Study, Shoe Research, Colonial America, Silk Road
		3.9 Communicate results of research and learning with others using the most appropriate tools (e.g., desktop-published or word-processed report, multimedia presentation).	Grades 2-5 Numerous research and curriculum activities using AppleWorks, Kid Pix, iMovie, Hyperstudio: Bear Research, Poetry, Disasters, Iditarod Research, Colonial America, Native Americans, Renaissance, Weather, Egypt, Astronomy, Folktales, Geometry, Media Literacy, Health Commercials
		3.10 Manipulate data using charting tools and graphic organizers (e.g., concept mapping, flow charting, and outlining software) to connect ideas and organize information.	Grades 2-5 Numerous research, writing process, and other curriculum activities using Appleworks templates, Inspiration templates, Draftbuilder, TERC Geo-Logo, Zoombinis: Math, Media Literacy, Data Collection, Book Reviews, Milk Study, Shoe Research, Colonial America, Silk Road