

Technology

Grades 6-8

Standard One

The student demonstrates knowledge and appropriate use of hardware components, software programs, and their connections. The student is expected to:

Foundations:

Objectives:

- (1) Demonstrate knowledge and appropriate use of operating systems, software applications, and communication and networking components.
- (2) Compare, contrast, and appropriately use the various input, processing, output, and primary/secondary storage devices.
- (3) Demonstrate the ability to select and use software for a defined task according to quality, appropriateness, effectiveness, and efficiency;
- (4) Delineate and make necessary adjustments regarding compatibility issues including, but not limited to, digital file formats and cross platform connectivity.
- (5) Use technology terminology appropriate to the task.
- (6) Perform basic software application functions including, but not limited to, opening an application program and creating, modifying, printing, and saving documents.
- (7) Explain the differences between analog and digital technology systems and give examples of each;
- (8) Use terminology related to the Internet appropriately including, but not limited to, electronic mail (e-mail), Uniform Resource Locators (URLs), electronic bookmarks, local area networks (LANs), wide area networks (WANs), World Wide Web (WWW) page, and HyperText Markup Language (HTML).
- (9) Compare and contrast LANs, WANs, Internet, and intranet.

Standard Two:

The student uses data input skills appropriate to the task. The student is expected to:

Knowledge and Skills:

Objectives:

- (1) Demonstrate proficiency in the use of a variety of input devices available such as mouse/track pad, keyboard, microphone, digital camera, printer, scanner, disk/disc, modem, CD-ROM, or joystick;
- (2) Demonstrate keyboarding proficiency in technique and posture while building speed to 30 words per minute.
- (3) Use digital keyboarding standards for data input such as one space after punctuation, two spaces after end of sentence punctuation.

Standard Three:

The student complies with the laws and examines the issues regarding the use of technology in society. The student is expected to:

Knowledge and Skills

Objectives:

- (1) Discuss copyright laws/issues and model ethical acquisition and use of digital information, citing sources using established methods;
- (2) Demonstrate proper etiquette and knowledge of acceptable use while in an individual classroom, lab, or on the Internet and intranet;
- (3) Describe the consequences regarding copyright violations including, but not limited to, computer hacking, computer piracy, intentional virus setting, and invasion of privacy;
- (4) Identify the impact of technology applications on society through research, interviews, and personal observation
- (5) Demonstrate knowledge of the relevancy of technology to future careers, life-long learning, and daily living for individuals of all ages.

Standard Four:

The student uses a variety of strategies to acquire information from electronic resources, with appropriate supervision. The student is expected to:

- (1) Use strategies to locate and acquire desired information on LANs and WANs, including the Internet, intranet, and collaborative software; and
- (2) Apply appropriate electronic search strategies in the acquisition of information including keyword and Boolean search strategies.

Standard Five:

The student acquires electronic information in a variety of formats, with appropriate supervision. The student is expected to:

Information Acquisition

Objectives:

- (1) Identify, create, and use files in various formats such as text, graphics, image, and audio files.
- (2) Demonstrate the ability to access, operate, and manipulate information from secondary and devices.
- (3) Use software applications help and other documentation.

Standard Six:

The student evaluates the acquired electronic information. The student is expected to:

Information Acquisition:

Objectives:

- (1) Determine and employ methods to evaluate the electronic information for accuracy and validity.
- (2) Resolve information conflicts and validate information through accessing, researching, and comparing data.
- (3) Demonstrate the ability to identify the source, location, media type, relevancy, and content validity of available information.

Standard Seven:

The student uses appropriate computer-based productivity tools to create and modify solutions to problems. The student is expected to:

Information Acquisition

Objectives:

- (1) Plan, create, and edit documents created with a word processor using readable fonts, alignment, page setup, tabs, and ruler settings.
- (2) Create and edit spreadsheet documents using all data types, formulas and functions, and chart information.
- (3) Demonstrate proficiency in the use of multimedia authoring programs by creating linear or non-linear projects incorporating text, audio, video, and graphics;
- (4) Create a document using desktop publishing techniques including, but not limited to, the creation of multi-column or multi-section documents with a variety of text-wrapped frame formats;
- (5) Differentiate between and demonstrate the appropriate use of a variety of graphic tools found in draw and paint applications;
- (6) Integrate two or more productivity tools into a document including, but not limited to, tables, charts and graphs, graphics from paint or draw programs.

Standard Eight:

The student uses research skills and electronic communication, with appropriate supervision, to create new knowledge. The student is expected to:

Problem Solving:

Objectives:

- (1) Use technology in self-directed activities by sharing products for defined audiences; and
- (2) Integrate acquired technology applications skills, strategies, and use of the word processor, spreadsheet, draw, paint into the foundation and enrichment curricula.

Standard Nine:

The student formats digital information for appropriate and effective communication. The student is expected to:

Problem Solving:

Objectives:

- (1) Use productivity tools to create effective document files for defined audiences such as slide shows, posters, multimedia presentations, newsletters, brochures, or reports.
- (2) Create a variety of spreadsheet layouts containing descriptive labels and page settings.
- (3) Demonstrate appropriate use of fonts, styles, and sizes, as well as effective use of graphics and page design to effectively communicate.
- (4) Match the chart style to the data when creating and labeling charts.

Standard Ten:

The student delivers the product electronically in a variety of media, with appropriate supervision. The student is expected to:

Problem Solving:

Objectives:

- (1) Publish information in a variety of ways including, but not limited to, printed copy, monitor display, Internet documents.
- (2) Design and create interdisciplinary multimedia presentations for defined audiences including audio, text, and graphics.

Standard Eleven:

The student uses technology applications to facilitate evaluation of communication, both process and product. The student is expected to:

Communication:

Objectives:

- (1) determine and employ technology specifications to evaluate projects for design, content delivery, purpose, and audience, demonstrating that process and product can be evaluated using established criteria or rubrics;
- (2) evaluate the product for relevance to the assignment or task.