

Technology

Grades 3-5

Standard One

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

Knowledge and Skills:

Objectives:

- (1) Use technology terminology appropriate to the task;
- (2) Save and delete files, uses menu options and commands, and work with more than one software application;
- (3) Identify and describe the characteristics of digital input, processing, and output;
- (4) Delineate and make necessary adjustments regarding compatibility issues including, but not limited to, digital file formats and cross platform connectivity; and
- (5) Access remote equipment on a network such as a printer or other peripherals.

Standard Two:

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

Knowledge and Skills

Objectives:

- (1) Use a variety of input devices such as mouse, keyboard, disk drive, modem, voice/sound recorder, scanner, digital video, CD-ROM, or touch screen;
- (2) Use proper keyboarding techniques such as correct hand and body positions and smooth and rhythmic keystroke patterns;
- (3) Demonstrate touch keyboarding techniques for operating the alphabetic, numeric, punctuation, and symbol keys as grade-level appropriate;
- (4) Produce documents at the keyboard, proofread, and correct errors;
- (5) Use language skills including capitalization, punctuation, spelling, word division, and use of numbers and symbols as grade-level appropriate; and
- (6) Demonstrate a 15 words per minute on short timed exercises depending upon the grade level and hours of instruction.

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) Follow acceptable use policies when using computers.
- (2) Model respect of intellectual property by not illegally copying software or another individual's electronic work.
- (3) Cite sources of information gathered from gather electronic and written resources.

Standard Four:

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

Information Acquisition

Objectives:

- (1) Apply appropriate electronic search strategies in the acquisition of information including keyword and Boolean search strategies; and
- (2) Select appropriate strategies to navigate and access information on local area networks (LANs) and wide area networks (WANs), including the Internet and intranet, for research and resource sharing.

Standard Five:

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

Information Acquisition:

Objectives:

- (1) Acquire information including text, audio, video, and graphics; and
- (2) Use on-line help and documentation.

Standard Six:

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

Information Acquisition

Objectives:

- (1) Apply critical analysis to resolve information conflicts and validate information;
- (2) Determine the success of strategies used to acquire electronic information; and
- (3) Determine the usefulness and appropriateness of digital information.

Standard Seven:

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

Problem Solving:

Objectives:

- (1) Use software programs with audio, video, and graphics to enhance learning experiences;
- (2) Use appropriate software to express ideas and solve problems including the use of word processing, graphics, spreadsheets, simulations, and multimedia; and
- (3) Use a variety of data types including text, graphics, digital audio, and video.

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 communication tools to participate in group projects;
- (2) Use interactive technology environments, such as simulations, electronic science or mathematics laboratories, virtual museum field trips, or on-line interactive lessons, to manipulate information with supervision.

Standard Nine:

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

Communication:

Objectives:

- (1) Use font attributes, color, white space, and graphics to ensure that products are appropriate for the defined audience.
- (2) Use font attributes, color, white space, and graphics to ensure that products are appropriate for the communication media including multimedia screen displays and printed materials.
- (3) Manipulate graphics
- (4) Use appropriate applications including, but not limited to, spreadsheets and databases to develop charts and graphs by using data from various sources.

Standard Ten:

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

Communication:

Objectives:

- (1) Publish information in a variety of media including, but not limited to, printed copy, monitor display; Internet documents, and multimedia presentations.

Standard Eleven:

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

Communication:

Objectives:

- (1) Select representative products to be collected and stored in an electronic evaluation tool;

(2) Evaluate the product for relevance to the assignment or task; and

(3) Follow teacher created technology assessment tools to monitor progress of project such as checklists, timelines, or rubrics.