Computer/Technology Standards by the End of Grade Twelve

The Computer/Technology Standards by the end of grades 5 and 8 identify technology skills for improving student learning through the integration of technology across the curriculum. Mastery of these skills results in students who are both computer literate and competent in the application of technology tools to support their learning needs.

In grades 9 through 12, technology continues to be integrated across the curriculum. The goal is that students in these grades achieve a higher level of mastery in the application of technology in their learning programs. The following standards identify essential skills for the student's use of existing and emerging technology tools for communication, productivity, management, research, problem solving, and decision making.

C/T12.1 The student will demonstrate a basic understanding of fundamental computer operations and concepts.

- ➢ Successfully operate a multimedia computer system with related peripheral devices.

- ➢ Demonstrate touch-typing skills in computer use.

- ➢ Use terminology related to computers and technology appropriately in written and oral communications.

- ➢ Describe how imaging devices may be used with computer systems.

- ➢ Describe how computers may be connected to form a telecommunication network.

- ➢ Analyze and solve simple hardware and software problems.

- ➢ Identify new and emerging technologies.

C/T12.2 The student will use application software to accomplish a variety of learning tasks.

- ➢ Use advanced features of word processing, desktop publishing, graphics programs, and utilities in learning activities.

- ➢ Use spreadsheets for analyzing, organizing, and displaying numeric data graphically.

- ➢ Design and manipulate databases and generate customized reports.

- ➢ Use features of applications that integrate word processing, database, spreadsheet, telecommunication, and graphics.

- ➢ Identify, select, and integrate video and digital images in varying formats for creating multimedia presentations, publications, and other products.

- Select, evaluate, and use appropriate technology for research and data collection.

- Apply specific-purpose electronic devices (such as a graphing calculator, scientific probeware, or multi-function keyboards) in appropriate content areas.

C/T12.3 The student will develop skills in the use of telecommunications networks

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- Use local, wide area and worldwide network communication systems to access, analyze, interpret, and synthesize information.

- Compare and contrast the use of local area networks, wide area networks and worldwide networks.

- Access and use telecommunications tools and resources for information sharing, remote information access and retrieval, and multi-media/hypermedia publishing.

- Demonstrate an understanding of the concepts of broadcast instruction, audio/video conferencing, and other distance learning applications.

- Explain legal, personal safety, network etiquette, and ethical behaviors regarding the use of technology and information.

C/T12.4   The student will demonstrate skill in the selection and use of appropriate technologies to gather, process, and analyze data and to report information related to an investigation.

- Design and use a wide range of effective search strategies to acquire information.

- Use a wide variety of electronic media and databases to search for and retrieve information.

- Evaluate the usefulness, appropriateness, currency, and reliability of acquired information.

- Select appropriate technology for communicating information for an intended purpose and audience.

- Utilize a variety of media and resources in collaboration with peers, experts, and others to design a learning activity or presentation.

- Appropriately cite electronic resources in gathering information.

- Apply Copyright and Fair Use Guidelines in reporting information.