

Computer/Technology Standards of Learning

Grades 9-12

Basic Operations and Concepts

C/T 9-12.1 The student will demonstrate knowledge of the nature and operation of technology systems.

- Discuss the inherent advantages and limitations of technology.
- Define the relationship between infrastructure, electronic resources, and connectivity.
- Identify and describe the impact of new and emerging technologies and their applications.

C/T 9-12.2 The student will demonstrate proficiency in the use of technology.

- Identify and resolve hardware and software compatibility issues.
- Develop and communicate strategies for solving routine hardware and software problems.

Social and Ethical Issues

C/T 9-12.3 The student will demonstrate knowledge of ethical, cultural, and societal issues related to technology.

- Assess the potential of information and technology to address personal and workplace needs.
- Demonstrate knowledge of electronic crimes such as viruses, pirating, and computer hacking.
- Explore and participate in online communities, and online learning opportunities.
- Identify the role that technology will play in future career opportunities.

C/T 9-12.4 The student will practice responsible use of technology systems, information, and software.

- Adhere to fair use and copyright guidelines.
- Adhere to the school division's Acceptable Use Policy as well as other state and federal laws.
- Model respect for intellectual property.

C/T 9-12.5 The student will demonstrate knowledge of technologies that support collaboration, personal pursuits, and productivity.

- Respectfully collaborate with peers, experts, and others to contribute to an electronic community of learning.
- Model responsible use and respect for equipment, resources, and facilities.

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Technology Research Tools

- C/T 9-12.6 The student will use technology to locate, evaluate, and collect information from a variety of sources.
- Integrate databases, spreadsheets, charts, and tables to create reports.
 - Use available technological tools to expand and enhance understanding of ideas and concepts.
- C/T 9-12.7 The student will evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.
- Analyze and draw conclusions about the comprehensiveness and bias of electronic information sources.
 - Design and implement a variety of search strategies to retrieve electronic information.

Problem-solving and Decision-making Tools

- C/T 9-12.8 The student will use technology resources for solving problems and making informed decisions.
- Investigate and apply expert systems, intelligent agents, and simulations in real-world situations.
 - Select and apply technology tools for information analysis, problem-solving, and decision-making.
 - Use technology resources such as educational software, simulations, and models for problem-solving, and independent learning.
 - Produce and disseminate information through collaborative problem-solving activities.

Technology Communication Tools

- C/T 9-12.9 The student will use a variety of media and formats to communicate information and ideas effectively to multiple audiences.
- Determine the most effective tool, format, and style to communicate to specific audiences.
 - Use technology-based options, including distance and distributed education, to collaborate, research, publish, and communicate.
 - Practice self-directed use of advanced technology tools for communicating with specific audiences.