

## Computer/Technology Standards of Learning

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### Grades 6-8

#### Basic Operations and Concepts

C/T 6-8.1 The student will demonstrate knowledge of the nature and operation of technology systems.

- Describe how technology impacts learning.
- Explore how software and hardware are developed to respond to the changing needs of technology.
- Describe compatibility issues, between various types of technology.

C/T6-8.2 The student will demonstrate proficiency in the use of technology.

- Understand that hardware and software have different operating systems that may affect their use.
- Use self-help features such as online tutorials and manuals to learn to use hardware and software.

#### Social and Ethical Issues

C/T 6-8.3 The student will demonstrate knowledge of ethical, cultural, and societal issues related to technology.

- Demonstrate knowledge of current changes in information technologies.
- Explain the need for laws and policies to govern technology.
- Explore career opportunities in technology related careers.

C/T 6-8.4 The student will practice responsible use of technology systems, information, and software.

- Demonstrate the correct use of fair use and copyright regulations.
- Demonstrate compliance with the school division's Acceptable Use Policy and other legal guidelines.

C/T 6-8.5 The student will demonstrate knowledge of technologies that support collaboration, personal pursuits, and productivity.

- Work collaboratively and/or independently when using technology.
- Practice preventative maintenance of equipment, resources, and facilities.
- Explore the potential of the Internet as a means of personal learning and the respectful exchange of ideas and products.

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### **Technology Research Tools**

- C/T 6-8.6 The student will use technology to locate, evaluate, and collect information from a variety of sources.
- Use databases and spreadsheets to evaluate information.
  - Use technology resources such as calculators and data collection probes for gathering information.
  - Use Internet and other electronic resources to locate information in real time.
- C/T 6-8.7 The student will evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.
- Use search strategies to retrieve information.
  - Evaluate the accuracy, relevance, and appropriateness of electronic information sources.

### **Problem-solving and Decision-making Tools**

- C/T 6-8.8 The student will use technology resources for solving problems and making informed decisions.
- Employ technology in the development of strategies for solving problems.
  - Use a variety of technologies to identify and provide possible solutions to real-world problems.
  - Use content-specific tools, software, and simulations such as environmental probes, graphic calculators, exploratory environments, and web tools.
  - Participate in collaborative problem-solving activities.
  - Select and use appropriate tools and technology resources to accomplish a variety of tasks.

### **Technology Communication Tools**

- C/T 6-8.9 The student will use a variety of media and formats to communicate information and ideas effectively to multiple audiences.
- Choose the appropriate tool, format, and style to communicate information.
  - Independently use technology tools to create and communicate for individual and/or collaborative projects.
  - Produce documents demonstrating the ability to edit, reformat, and integrate various software tools.