

Computer/Technology Standards of Learning (available:<http://www.pen.k12.va.us>)

The Computer/Technology Standards of Learning identify and define the progressive development of essential knowledge and skills necessary for students to access, evaluate, use and create information using technology. They provide a framework for technology literacy and demonstrate a progression from physical manipulation skills for the use of technology, to intellectual skills necessary for information use, to skills needed for working responsibly and productively within groups. Computer/technology proficiency is not an end in itself, but lays the foundation for continuous learning. The focus is on learning using technology rather than learning about technology.

To become technologically proficient, the student must develop the skills through integrated activities in all content areas K-12, rather than through one specific course. These skills should be introduced and refined collaboratively by all K-12 teachers as an integral part of the learning process. Teachers can use these standards as guidelines for planning technology-based activities in which students achieve success in learning, communication, and prepare them to meet the challenges of today's technology-rich world of work.

Grades 3-5

Basic Operations and Concepts

- C/T 3-5.1 The student will demonstrate knowledge of the nature and operation of technology systems.
- Discuss common uses of computers in their daily life and the advantages and disadvantages those uses provide.
 - Communicate about basic technology components with appropriate terminology.
- C/T 3-5.2 The student will demonstrate proficiency in the use of technology.
- Use skills and procedures needed to operate various technologies such as scanners, digital cameras and hand-held computers.
 - Identify basic software applications such as word processing, databases, and spreadsheets.

Social and Ethical Issues

- C/T 3-5.3 The student will demonstrate knowledge of ethical, cultural, and societal issues related to technology.
- Identify how technology has changed society in areas such as communications, transportation, and the economy.
 - Discuss ethical behaviors when using information and technology.
- C/T 3-5.4 The student will practice responsible use of technology systems, information, and software.
- Understand the need for the school division's acceptable use policy.
 - Discuss the rationale of fair use and copyright regulations.
 - Follow rules for personal safety when using the Internet.
- C/T 3-5.5 The student will demonstrate knowledge of technologies that support collaboration, personal pursuits, and productivity.
- Work collaboratively when using technology.
 - Practice and communicate respect for people, equipment, and resources.
 - Understand how technology expands opportunities for learning.

Technology Research Tools

- C/T 3-5.6 The student will use technology to locate, evaluate, and collect information from a variety of sources.
- Collect information from a variety of sources.
 - Evaluate the accuracy of electronic information sources.
 - Enter data into databases and spreadsheets.

Problem-solving and Decision-making Tools

- C/T 3-5.7 The student will use technology resources for solving problems and making informed decisions.
- Determine when technology tools are appropriate to solve a problem and make a decision.
 - Select resources to solve problems and make informed decisions.

Technology Communication Tools

- C/T 3-5.8 The student will use a variety of media and formats to communicate information and ideas effectively to multiple audiences.
- Produce documents demonstrating the ability to edit, reformat, and integrate various software tools.
 - Use technology tools for individual and collaborative writing, communication, and publishing activities.
 - Use telecommunication tools to communicate and share information with others.