

6-8 Technology Standards

Prior to completion of Grade 8, students will:

- Apply strategies for identifying and solving routine hardware and software problems that occur during everyday use. (1)
- Demonstrate knowledge of current changes in information technologies and the effect those changes have on the workplace and society. (2)
- Exhibit legal and ethical behaviors when using information and technology, and discuss consequences of misuse. (2)
- Use content-specific tools, software, and simulations (e.g., environmental probes, graphing calculators, exploratory environments, Web tools) to support learning and research. (3, 5)
- Apply productivity/multimedia tools and peripherals to support personal productivity, group collaboration, and learning throughout the curriculum. (3, 6)
- Design, develop, publish, and present products (e.g., Web pages, videotapes) using technology resources that demonstrate and communicate curriculum concepts to audiences inside and outside the classroom. (4, 5, 6)
- Collaborate with peers, experts, and others using telecommunications and collaborative tools to investigate curriculum-related problems, issues, and information, and to develop solutions or products for audiences inside and outside the classroom. (4, 5)
- Select and use appropriate tools and technology resources to accomplish a variety of tasks and solve problems. (5, 6)
- Demonstrate an understanding of concepts underlying hardware, software, and connectivity, and of practical applications to learning and problem solving. (1, 6)
- Research and evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources concerning real-world problems. (2, 5, 6)

Categorical Information

Numbers in parentheses following each performance indicator refer to the standards category to which the performance is linked. The categories are:

- (1) Basic operations and concepts*
- (2) Social, ethical, and human issues*
- (3) Technology productivity tools*
- (4) Technology communications tools*
- (5) Technology research tools*
- (6) Technology problem-solving and decision-making tools*

Works Cited:

<http://cnets.iste.org/>