

# Technology Literacy: Grades 6, 7, 8

Adopted 2010

**Demonstrate creative thinking in the design and development of innovative technology products and problem solving.**

- Design, develop, create, and/or test digital technology products.
- Individually or collaboratively create media-rich products and display, publish, or perform them for a variety of audiences.
- Use simulations to help understand complex, real-world systems, identify problems, develop models, and analyze the output.
- Investigate global issues and make informed choices based on knowledge of technology systems, resources, and services.

**Collaborate with peers, experts, and others using interactive technology.**

- Interact and collaborate with peers, experts, and others using technology.
- Contribute to a content knowledge base by creating, producing, and sharing information, models, and other creative works.
- Efficiently use technology tools and resources for communication and to access remote information and exchange it with a variety of audiences.
- Engage in learning activities with learners from other countries and/or cultures using telecommunication tools to create, produce, and share information, models, and other projects with a global or cultural focus.
- Share knowledge and skills with local or distant teams of peers, experts, or others using technology tools and resources to create group works and/or innovative solutions.

**Plan strategies utilizing digital tools to gather, evaluate, and use information.**

- Create a plan for the use of digital tools and resources to investigate a real-world issue.
- Locate, organize, analyze, evaluate, and synthesize information from a variety of sources and media and use this information in a legal and ethical manner.
- Evaluate resources in terms of their usefulness and validity for research.
- Use technological tools to select data and organize it into a format that is easily understood by others.

**Use critical thinking skills to conduct research, solve problems, and make informed decisions using appropriate technological tools and resources.**

- **Identify real-world issues and analyze technological resources for developing and refining questions for investigation.**
- **Effectively use multiple technological resources to develop a systematic plan for conducting research. Develop possible solutions or a complete product to demonstrate knowledge and skills.**
- **Use technology to gather, analyze, and assess data and its effectiveness to design, develop and test possible solutions that assist students in making decisions.**
- **Analyze and evaluate information from a variety of perspectives and resources in order to assess multiple solutions and investigate them from differing viewpoints.**

**Understand the legal and ethical issues of technology as related to individuals, cultures, and societies.**

- **Use technology efficiently and in a manner that does not harm them or others.**
- **Demonstrate awareness of legal and ethical responsibilities when using copyrighted material, and how a disregard of legal and ethical responsibilities affects others.**
- **Use online resources to work with others to complete a task and accept responsibility for the results.**
- **Identify capabilities of contemporary technology resources.**
- **Develop examples of how technology systems and services can assist them in pursuing personal interests.**

**Understand the underlying structure and application of technology systems.**

- **Utilize technology for everyday use and understand how technology systems can be applied to various situations.**
- **Select and use technology applications to conduct research, solve problems and produce finished products.**
- **Identify the source of a problem with technology, and, if necessary, the appropriate support personnel needed.**
- **Apply knowledge of technology to explore other technologies and be able to identify commonalities among them.**