

Grade 8

Adopted 2007

Nature, Concepts and Systems (systems thinking, interactions, and design)

1: Students understand the history and progression of technology in relation to the development and design of future technology.

1. Evaluate the innovations contributed by individuals and institutions related to technology to understand that role in the development and design of technology. [8.NC.1.1](#)

2: Students analyze the parts of a technological system in terms of input, process, output, and feedback.

1. Compare the effect one system has on another system. [8.NC.2.1](#)

3: Students analyze the relationships and the connections between technologies in different fields of study and how they apply to communities.

1. Evaluate technology education skills required to pursue a chosen personal career path. [8.NC.3.1](#)

4: Students understand the purpose and demonstrate the use of the design process in problem solving.

1. Validate the design process in problem-solving activities. [8.NC.4.1](#)

Social Interactions in Information & Communication Technology

1: Students understand the safe, ethical, legal, and societal issues related to technology.

1. Outline the components and purpose of school acceptable use policies. [8.SI.1.1](#)

2: Students investigate the advantages and disadvantages of technology.

1. Distinguish the effects that may result from society's increasing reliance on technology. [8.SI.2.1](#)

Information & Communication Technology Tools

1: Students recognize and demonstrate skills in operating technological systems.

1. Categorize the causes of routine hardware or software problems. [8.CT.1.1](#)

2: Students use technology to enhance learning, extend capability, and promote creativity.

1. Recommend applications that could be extended to other situations. 8.CT.2.1
 2. Demonstrate the ability to utilize virtual learning environments in a classroom setting. 8.CT.2.2
 3. Incorporate the use of keyed technology into any learning environment. 8.CT.2.3
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3: Students evaluate and select information tools based on the appropriateness to specific tasks

1. Develop a repertoire of strategies to apply new technologies to tasks. 8.CT.3.1
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**Information &
Communication
Technology Processes**

1: Students understand the purpose of information technologies to communicate with a variety of collaborators.

1. Evaluate a variety of communication tools for effective and efficient collaboration. 8.CP.1.1
 2. Evaluate the process of communicating clearly to peers, teachers and others using collaborative technologies. 8.CP.1.2
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2: Students exchange information and ideas for an identified purpose through Information Technologies.

1. Integrate effective information technology to managing personal and education information. 8.CP.2.1
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Information Literacy

1: Students use technology to locate and acquire information.

1. Design a plan for conducting a search of electronic resources for a given task. 8.IL.1.1
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2: Students determine the reliability and relevancy of Information

1. Compare and contrast online sources for accuracy, relevance, comprehensiveness and bias. 8.IL.2.1