

Grade 4

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. Distinguish how changes in technological tools affect outcomes. [4.NC.1.1](#)

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

1. Determine the effects of feedback in the system model. [4.NC.2.1](#)
2. Identify the resources needed in a system in order for it to work. [4.NC.2.2](#)

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

1. Identify examples of how technology changes have affected society. [4.NC.3.1](#)

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

1. Adapt a structured method to produce a variety of solutions to a given problem using the design process. [4.NC.4.1](#)

Social Interactions in Information & Communication Technology

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

1. compare and contrast consequences of illegal and unethical technology use. [4.SI.1.1](#)
2. Communicate issues relating to online safety. [4.SI.1.2](#)
3. Determine where and when to cite a source of information. [4.SI.1.3](#)
4. Identify cultural issues relating to technology. [4.SI.1.4](#)

2: Students investigate the advantages and disadvantages of technology.

1. Distinguish advantages and disadvantages of technology on society. [4.SI.2.1](#)

Information & Communication Technology Tools

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

1. Demonstrate how to use parts of Application windows and menu options. [4.CT.1.1](#)
2. Demonstrate the correct use of all letters, punctuation, symbol and command keys using proper techniques. [4.CT.1.2](#)

3. Use input/output devices and other peripherals. 4.CT.1.3
4. Manage and maintain files and folders independently application. 4.CT.1.4
5. Demonstrate the correct use of all letters, punctuation, symbol and command keys. 4.CT.1.5

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

1. Use presentation application to develop a product. 4.CT.2.1

3: Students evaluate and select information tools based on the appropriateness to specific tasks

1. Explain how problems are solved through innovations. 4.CT.3.1

**Information &
Communication
Technology Processes**

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

1. Utilize virtual collaboration environments to contribute within a group to the production of a digital output. 4.CP.1.1

2: Students exchange information and ideas for an identified purpose through Information Technologies.

1. Select the best way to deliver a presentation/project deliver information and ideas based on the audience. 4.CP.2.1

Information Literacy

1: Students use technology to locate and acquire information.

1. Given a general topic predict what key details will be needed to refine a search in a database for a specific purpose. 4.IL.1.1

2: Students determine the reliability and relevancy of Information

1. evaluate the relevancy of the resource. 4.IL.2.1