

Foundation Operations, Knowledge and Concepts

F1. Students will demonstrate an understanding of the nature of technology.

Grade 4

The student will be able to

- 2.1 apply terminology appropriate to the technologies being used at this division level
- 2.2 identify and apply techniques and tools for communicating, storing, retrieving and selecting information

Grade 5

The student will be able to

- 2.3 explain the advantages and limitations of using computers to store, organize, retrieve and select information

Grade 6

The student will be able to

- 2.4 recognize the potential for human error when using technology

F2. Students will understand the role of technology as it applies to self, work and society.

Grade 4

The student will be able to

- 2.1 identify how technological developments influence his or her life
- 2.3 examine the environmental issues related to the use of technology

Grade 5

The student will be able to

- 2.2 identify the role technology plays in a variety of careers

Grade 6

The student will be able to

- 2.4 assess the personal significance of having limitless access to information provided by communication networks such as the internet

F3. Students will demonstrate a moral and ethical approach to the use of technology.

Grade 4

The student will be able to

- 2.1 comply with the acceptable use policy of the school and district for Internet and networked services, including software licensing agreements
- 2.2 work collaboratively to share limited resources

Grade 5

The student will be able to

- 2.3 use appropriate communication language and etiquette
- 2.4 document sources obtained electronically such as Web site addresses
- 2.6 use electronic networks in an ethical manner

Grade 6

The student will be able to

- 2.5 respect the privacy and products of others
- 2.7 comply with copyright legislation

F4. Students will become discerning consumers of mass media and electronic information.

Grade 4

The student will be able to

2.1 recognize that graphics, video and sound enhance communication

Grade 5

The student will be able to

2.2 describe how the use of various texts and graphics can alter perception

Grade 6

The student will be able to

2.3 discuss how technology can be used to create special effects and/or to manipulate intent through the use of images and sound

F5. Students will practice the concepts of ergonomics and safety when using technology.

Grade 4

The student will be able to

2.1 demonstrate the application of ergonomics to promote personal health and well-being

Grade 5

The student will be able to

2.2 identify and apply safety procedures required for the technology being used

Grade 6

The student will be able to

F6. Students will demonstrate a basic understanding of the operating skills required in a variety of technologies.

Grade 4

The student will be able to

2.1 power up and power down various technologies and peripherals correctly

2.4 use appropriate keyboarding techniques for the alphabetic and punctuation keys

Grade 5

The student will be able to

Grade 6

The student will be able to

2.2 use and organize files and directories

2.3 use peripherals, including printers and scanners

Process for Productivity

P1. Students will compose, revise and edit text.

Grade 4

The student will be able to

2.1 create and revise original text to communicate and demonstrate understanding of forms and techniques

Grade 5

The student will be able to

2.2 edit and format text using such word-processing features as the thesaurus, find/change, text alignment, font size and style to clarify and enhance meaning

Grade 6

The student will be able to

2.3 convert digital text files by opening and saving them as different file types

P2. Students will organize and manipulate data.

Grade 4

The student will be able to

Grade 5

The student will be able to

- 2.1 enter and manipulate data, by using tools such as spreadsheet or database for a specific purpose
- 2.2 display data electronically through graphs and charts

Grade 6

The student will be able to

P3. Students will communicate through multimedia.

Grade 4

The student will be able to

Grade 5

The student will be able to

Grade 6

The student will be able to

- 2.1 create a multimedia presentation, incorporating features such as visual images (clip art, video clips), sounds (live recording, sound clips) and animated images, appropriate to a variety of audiences and purposes
- 2.2 access available databases for images to support communication

P4. Students will integrate various applications.

Grade 4

The student will be able to

- 2.2 vary font style and size, and placement of text and graphics, in order to create a certain visual effect.

Grade 5

The student will be able to

- 2.1 integrate a spreadsheet, or graphs generated by a spreadsheet, into a text document

Grade 6

The student will be able to

P5. Students will navigate and create hyperlinked resources.

Grade 4

The student will be able to

- 2.3 navigate the Internet with appropriate software

Grade 5

The student will be able to

- 2.2 navigate through a document that contains links to locate, copy and then paste data in a new file

Grade 6

The student will be able to

- 2.1 create and navigate a multiple-link document

P6. Students will use communication technology to interact with others.

Grade 4

The student will be able to

- 2.1 select and use the technology appropriate to a given communication situation

Grade 5

The student will be able to

Grade 6

The student will be able to

Inquiry, Decision Making and Problem Solving

I1. Students will access and use information from a variety of technologies.

Grade 4

The student will be able to

- 2.1 access and retrieve appropriate information from the Internet by using a specific search path or given uniform resource locations (URLs)

Grade 5

The student will be able to

Grade 6

The student will be able to

- 2.1 organize information gathered from the Internet or an electronic source by selecting and recording the data in logical files or categories

I2. Students will seek alternative viewpoints using information technologies.

Grade 4

The student will be able to

Grade 5

The student will be able to

Grade 6

The student will be able to

- 2.1 seek responses to inquiries from various authorities through electronic media

I3. Students will critically assess information accessed through the use of a variety of technologies.

Grade 4

The student will be able to

Grade 5

The student will be able to

Grade 6

The student will be able to

- 2.1 identify and distinguish points of view expressed in electronic sources on a particular topic
- 2.2 recognize that information serves different purposes and data from electronic sources may need to be verified to determine accuracy or relevance for the purpose used

14. Students will use organizational processes and tools to manage inquiry.

Grade 4

The student will be able to

- 2.3 reflect on and describe the process involved in completing a project

Grade 5

The student will be able to

- 2.2 organize information, using tools such as a database, spreadsheet or electronic webbing

Grade 6

The student will be able to

- 2.1 design and follow a plan (including a schedule) to be used during an inquiry process, and make revisions to the plan as necessary

15. Students will use technology to aid collaboration during inquiry.

Grade 4

The student will be able to

- 2.2 record group brainstorming, planning and sharing of ideas by using technology

Grade 5

The student will be able to

- 2.1 retrieve data from available storage devices such as a shared folder to which a group has contributed
- 2.3 extend the scope of a project beyond classroom collaboration by using communication technologies such as the telephone and e-mail.

Grade 6

The student will be able to

16. Students will use technology to investigate and/or solve problems.

Grade 4

The student will be able to

- 2.1 select and use technology to assist in problem solving

Grade 5

The student will be able to

- 2.2 use data gathered from a variety of electronic sources to address identified problems
- 2.3 use graphic organizers such as mind mapping/webbing, flow charting and outlining to present connections among ideas and information in a problem-solving environment
- 2.6 solve issue-related problems using communication tools such as a word processor or e-mail to involve others in the process

Grade 6

The student will be able to

- 2.4 solve problems using numerical operations and tools such as calculators and spreadsheets
- 2.5 solve problems requiring the sorting, organizing, classifying and extending of data using tools such as calculators, spreadsheets, databases or hypertext technology
- 2.7 generate alternative solutions to problems by using technology to facilitate the process

17. Students will use electronic research techniques to construct personal knowledge and meaning.

Grade 4

The student will be able to

Grade 5

The student will be able to

2.2 use selected presentation tools to demonstrate connections among various pieces of information

Grade 6

The student will be able to

2.1 use a variety of technologies to organize and synthesize researched information