

6th Grade

Networks & Internet:
Networks link computers and devices locally and around the world allowing people to access and communicate information. 6.NI

- 1 Explain how data is sent across networks. 6.NI.1

Hardware & Software:
Devices, hardware, and software work together as a system to accomplish tasks. 6.HS

- 1 Use hardware and/or software to complete a task. 6.HS.1
- 2 Use software features to accomplish a goal. 6.HS.2
- 3 Organize, store, and retrieve digital information with guidance. 6.HS.3
- 4 Identify threats to technology systems. (CYSEC) 6.HS.4
- 5 Identify security measures to protect technology systems. (CYSEC) 6.HS.5

Troubleshooting:
Strategies for solving technology system problems. 6.T

- 1 Apply basic troubleshooting strategies. 6.T.1

Problem Solving & Algorithms: Strategies for understanding and solving problems. 6.PSA

- 1 Identify and test an algorithm to solve a problem. 6.PSA.1
- 2 Debug a program that includes sequencing, loops, or conditionals. 6.PSA.2
- 3 Compare and contrast the efficiencies of multiple solutions to a task. 6.PSA.3

Data Creation & Analysis: Data can be collected, used, and presented with computing devices or digital tools. 6.DCA

- 1 Collect and analyze data to support a claim. 6.DCA.1

Development & Design:
Design processes to create new, useful, and

- 1 Use programs that utilize combinations of loops, conditionals, and the manipulation of variables representing different data types. 6.DD.1

imaginative solutions to solve problems. 6.DD

Access: Effective search strategies can locate information for intellectual or creative pursuits. 6.A

1 Use a variety of strategies to refine and revise search results. 6.A.1

Evaluate: Information sources can be evaluated for accuracy, currency, appropriateness, and purpose. 6.E

1 Evaluate information and its sources. 6.E.1

Create: It is important to both consume and produce information to be digitally literate. 6.C

1 Repurpose or remix original works following fair use guidelines. 6.C.1

Intellectual Property: Respect for the rights and obligations of using and sharing intellectual property. 6.IP

1 With guidance, properly use copyrighted works, works in the creative commons, and works in the public domain. 6.IP.1

2 Cite a variety of sources using the appropriate format. 6.IP.2

3 Describe negative consequences of piracy and plagiarism. 6.IP.3

Impacts of Computing: Past, present, and possible future impact of technology on society. 6.IC

1 Identify the positive and negative impacts of past, present, and future technology, including bias and accessibility. 6.IC.1

Social Interactions: Technology facilitates collaboration with others. 6.SI

1 Use collaborative technology. 6.SI.1

2 Identify how social interactions can impact a person's self-image. 6.SI.2

Safety & Ethics: There are both positive and negative impacts in social and ethical behaviors for using technology. 6.SE

1 Identify steps for responding to uncomfortable situations when interacting online. (CYSEC) 6.SE.1

2 Identify basic methods to maintain digital privacy and security. (CYSEC) 6.SE.2

3 Recognize that data-collection technology can be used to track navigation online. (CYSEC) 6.SE.3

4 Identify threats to personal cybersecurity. (CYSEC) 6.SE.4

Responsible: Use Respect and dignity in virtual and physical communities. 6.RU

1 Identify different forms of cyberbullying. 6.RU.1

2 Identify strategies to stop cyberbullying. 6.RU.2

3 Use appropriate digital etiquette in a variety of situations. 6.RU.3

4 Understand the purpose of and comply with Acceptable Use Policies. 6.RU.4

Digital Identity: The responsibilities and opportunities that come with living, learning, and working in an interconnected digital world. 6.DI

1 Describe personal online usage and determine how it affects identity on- and offline. 6.DI.1