

4th Grade

Networks & Internet:
Networks link computers and devices locally and around the world allowing people to access and communicate information. 4.NI

- 1 Recognize that computing devices can be connected in a variety of ways to share information. 4.NI.1

Hardware & Software:
Devices, hardware, and software work together as a system to accomplish tasks. 4.HS

- 1 Explain the difference between hardware and software. 4.HS.1
- 2 Continued growth. 4.HS.2
- 3 Continued growth. 4.HS.3

Troubleshooting:
Strategies for solving technology system problems. 4.T

- 1 Continued growth. 4.T.1

Problem Solving & Algorithms: Strategies for understanding and solving problems. 4.PSA

- 1 Decompose (break down) a large task into smaller, manageable subtasks. 4.PSA.1
- 2 Debug a program that includes sequencing or loops. 4.PSA.2
- 3 Identify multiple solutions to a task. 4.PSA.3

Data Creation & Analysis: Data can be collected, used, and presented with computing devices or digital tools. 4.DCA

- 1 Organize and present collected data visually to highlight comparisons. 4.DCA.1

Development & Design:
Design processes to create new, useful, and imaginative solutions to problems. 4.DD

- 1 Independently and collaboratively create programs that use sequencing, loops, and conditionals. 4.DD.1

Access: Effective search strategies can locate information for intellectual or creative pursuits. 4.A	1 Use multiple teacher-selected online resources to locate information. 4.A.1
Evaluate: Information sources can be evaluated for accuracy, currency, appropriateness, and purpose. 4.E	1 With guidance, use a strategy to evaluate information for research purposes. 4.E.1
Create: It is important to both consume and produce information to be digitally literate. 4.C	1 Continued growth. 4.C.1
Intellectual Property: Respect for the rights and obligations of using and sharing intellectual property. 4.IP	1 Demonstrate an understanding of copyright and fair use. 4.IP.1 2 With guidance, create a citation. 4.IP.2 3 With guidance, use strategies to avoid piracy and plagiarism. 4.IP.3
Impacts of Computing: Past, present, and possible future impact of technology on society. 4.IC	1 Give examples of technologies that influence society today. 4.IC.1
Social Interactions: Technology facilitates collaboration with others. 4.SI	1 With guidance, use collaborative technology to interpret diverse perspectives. 4.SI.1
Safety & Ethics: There are both positive and negative impacts in social and ethical behaviors for using technology. 4.SE	1 Identify and explain issues related to responsible use of technology and information and describe personal consequences of inappropriate use. (CYSEC) 4.SE.1 2 Create secure authentication to insure privacy. (CYSEC) 4.SE.2 3 Continued growth. 4.SE.3 4 Recognize when it is safe to share private information online. (CYSEC) 4.SE.4
Responsible Use: Respect and dignity in	1 Discuss basic issues related to the appropriate use of technology and information, and the consequences of inappropriate use. 4.RU.1

**virtual
communities.** 4.RU

2 Identify strategies for dealing responsibly with cyberbullying and reporting inappropriate behavior. 4.RU.2

3 Continued growth. 4.RU.3

4 Comply with Acceptable Use Policies. 4.RU.4

**Digital Identity:
Responsibilities and
opportunities of living,
learning, and working in
an interconnected
digital world.** 4.DI

1 Explain the importance of your digital identity. 4.DI.1