

Grade 4

Adopted 2021

Empowered Learner

1. Identify the features of current technologies and use that knowledge to understand emerging technologies. [CSS.EL.3-5.1](#)

1. Describe how internal and external parts of computing devices function to form a system. [CSS.EL.3-5.1.1](#)
2. Model how computer hardware and software work together as a system to accomplish tasks. [CSS.EL.3-5.1.2](#)
3. Determine potential solutions to solve simple hardware and software problems using common troubleshooting strategies. [CSS.EL.3-5.1.3](#)
4. Develop and apply keyboarding skills, utilizing current technology. [CSS.EL.3-5.1.4](#)
5. Compare and contrast prior knowledge on current technologies with that of new or emerging technologies. [CSS.EL.3-5.1.5](#)
6. Develop, reflect on, and revise personal learning goals in collaboration with their peers. [CSS.EL.3-5.1.6](#)

Knowledge Constructor

2. Curate (analyze and evaluate) a variety of resources and digital tools to construct knowledge and produce creative artifacts. [CSS.KC.3-5.2](#)

1. Curate (analyze and evaluate) information from digital resources using a variety of tools and methods to create collections of artifacts that demonstrate meaningful connections or conclusions. [CSS.KC.3-5.2.1](#)
2. Build knowledge by actively exploring real-world issues. [CSS.KC.3-5.2.2](#)
3. Explain why a real-world issue exists or was created and develop a possible solution. [CSS.KC.3-5.2.3](#)

Digital Citizen

3. Identify the rights, responsibilities, and opportunities of living, learning, and working in an interconnected digital world, and then act and model in ways that are safe, legal and ethical. [CSS.DC.3-5.3](#)

1. Discuss real-world cybersecurity problems (e.g. viruses, phishing attacks, click bait, etc) and how personal information can be protected. [CSS.DC.3-5.3.1](#)
 2. Understand, demonstrate, and encourage respect for intellectual property of print and digital media. [CSS.DC.3-5.3.2](#)
 3. Create and manage digital identity through positive, safe, and ethical online interactions. [CSS.DC.3-5.3.3](#)
-

Innovative Designer and Creator

- 4. Use a variety of technologies within a design process to identify and solve problems by creating new, useful, or imaginative solutions.** [CSS.IDC.3-5.4](#)
 1. Explore and practice a deliberate design process for generating ideas, testing theories, creating innovative artifacts, or solving authentic problems. [CSS.IDC.3-5.4.1](#)
 2. Select, evaluate, and use appropriate digital tools to plan and manage a design process. [CSS.IDC.3-5.4.2](#)
 3. Modify, remix, or incorporate portions of an existing program into one's own work, to develop something new or add more advanced features. [CSS.IDC.3-5.4.3](#)
-

Computational Thinker

- 5. Develop and employ strategies for understanding and solving problems in ways that use the power of technological methods to develop and test solutions.** [CSS.CT.3-5.5](#)
 1. Compare and refine multiple algorithms for the same task and determine which is the most appropriate. [CSS.CT.3-5.5.1](#)
 2. Decompose (break down) problems into smaller, manageable subproblems to facilitate the program development process. [CSS.CT.3-5.5.2](#)
 3. Test and debug (identify and fix errors) a program or algorithm to ensure it runs as intended. [CSS.CT.3-5.5.3](#)
 4. Create programs that include sequences, events, loops, conditionals, and variables. [CSS.CT.3-5.5.4](#)
-

Creative Communicator

- 6. Select and use the most appropriate platform, tool, style, format and digital media to clearly and creatively express thoughts, messages, goals, or positions.** [CSS.CC.3-5.6](#)
 1. Create original works or responsibly repurpose or remix digital resources into new creations. [CSS.CC.3-5.6.1](#)
 2. Communicate complex ideas clearly and effectively by creating or using a variety of digital objects. [CSS.CC.3-5.6.2](#)
 3. Publish or present content that customizes the message and medium for their intended audiences. [CSS.CC.3-5.6.3](#)
-

Global Collaborator

- 7. Use digital tools to expand personal viewpoints and enrich learning by collaborating effectively both locally and globally.** [CSS.GC.3-5.7](#)
 1. Explore local and global issues using digital tools to connect with learners from a variety of backgrounds and cultures [CSS.GC.3-5.7.1](#)
 3. Take on varying roles, with teacher guidance, when collaborating with peers during the design, implementation, and review stages of program development. [CSS.GC.3-5.7.3](#)
-

Reflective Researcher

8. Gather, evaluate, and organize quality information from multiple sources. [CSS.RR.3-5.8](#)

1. Evaluate the accuracy, perspective, credibility and relevance of information, media, data, or other resources. [CSS.RR.3-5.8.2](#)
-

Digital Awareness

9. Understand the relationship between technology, lifelong learning, and the appropriate use of information. [CSS.DA.3-5.9](#)

1. Discuss computing technologies that have changed the world, and express how those technologies influence, and are influenced by, cultural practices. [CSS.DA.3-5.9.1](#)
2. Identify and propose ways to improve usability of technology for diverse users. [CSS.DA.3-5.9.2](#)