

# 5th Grade

**Networks & Internet:**  
Networks link computers and devices locally and around the world allowing people to access and communicate information. 5.NI

- 1 Understand that information is sent and received across physical or wireless paths. 5.NI.1

**Hardware & Software:**  
Devices, hardware, and software work together as a system to accomplish tasks. 5.HS

- 1 Compare and contrast physical and virtual systems. 5.HS.1
- 2 Continued growth. 5.HS.2
- 3 Continued growth. 5.HS.3

**Troubleshooting:**  
Strategies for solving technology system problems. 5.T

- 1 Continued growth. 5.T.1

**Problem Solving & Algorithms:** Strategies for understanding and solving problems. 5.PSA

- 1 Create a sequence of instructions from a previous decomposed task. 5.PSA.1
- 2 Debug a program that includes sequencing, loops, or conditionals. 5.PSA.2
- 3 Work collaboratively to explore multiple solutions to a task. 5.PSA.3

**Data Creation & Analysis:** Data can be collected, used, and presented with computing devices or digital tools. 5.DCA

- 1 Organize and present collected data to highlight comparisons and support a claim. 5.DCA.1

**Development & Design:**  
Design processes to create new, useful, and imaginative solutions to problems. 5.DD

- 1 Continued growth. 5.DD.1
- 2 Create solutions to problems using a design method. 5.DD.2

**Access: Effective search strategies can locate information for intellectual or creative pursuits.** 5.A

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**1 Refine your keyword search to improve your results.** 5.A.1

**Evaluate: Information sources can be evaluated for accuracy, currency, appropriateness, and purpose.** 5.E

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**1 Continued growth.** 5.E.1

**Create: It is important to both consume and produce information to be digitally literate.** 5.C

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**1 Independently or collaboratively, create a digital product using two or more tools.** 5.C.1

**Intellectual Property: Respect for the rights and obligations of using and sharing intellectual property.** 5.IP

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**1 With guidance, demonstrate an understanding of ethical issues in copyright and fair use.** 5.IP.1

**2 Continued growth.** 5.IP.2

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**3 Continued growth.** 5.IP.3

**Impacts of Computing: Past, present, and possible future impact of technology on society.** 5.IC

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**1 Explain how technologies can change the future.** 5.IC.1

**Social Interactions: Technology facilitates collaboration with others.** 5.SI

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**1 With guidance, use collaborative technology to compare and contrast diverse perspectives.** 5.SI.1

**Safety & Ethics: There are both positive and negative impacts in social and ethical behaviors for using technology.** 5.SE

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**1 Recognize that there are real-world cybersecurity problems (i.e., hacking) when interacting online. (CYSEC)** 5.SE.1

**2 Continued growth.** 5.SE.2

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**3 Continued growth.** 5.SE.3

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**4 Apply strategies to keep your private information safe online. (CYSEC)** 5.SE.4

**Responsible Use: Respect and dignity in**

**1 Demonstrate an understanding of the appropriate use of technology and information and the consequences of inappropriate use.** 5.RU.1

**virtual communities.** 5.RU

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**2 Use strategies that prevent and deal responsibly with cyberbullying and inappropriate behavior.** 5.RU.2

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**3 Continued growth.** 5.RU.3

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**4 Comply with Acceptable Use Policies.** 5.RU.4

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**Digital Identity: Responsibilities and opportunities of living, learning, and working in an interconnected digital world.** 5.DI

**1 Continued growth.** 5.DI.1