

# 12th Grade

**Networks & Internet:**  
Networks link computers and devices locally and around the world allowing people to access and communicate information [12.NI](#)

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- 1 Choose an appropriate network connection given a scenario or situation.** [12.NI.1](#)
- 2 Compare and contrast the benefits and security risks of networkable devices.** [12.NI.2](#)

**Hardware & Software:**  
Devices, hardware, and software work together as a system to accomplish tasks. [12.HS](#)

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- 1 Continued growth.** [12.HS.1](#)
- 2 Continued growth.** [12.HS.2](#)
- 3 Implement redundancy. (CYSEC)** [12.HS.3](#)

**Troubleshooting:**  
Strategies for solving technology system problems. [12.T](#)

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- 1 Implement systematic troubleshooting strategies to identify and fix errors.** [12.T.1](#)

**Problem Solving & Algorithms:** Strategies for understanding and solving problems [12.PSA](#)

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- 1 Use and adapt common algorithms to solve computational problems.** [12.PSA.1](#)

**Data Creation & Analysis:** Data can be collected, used, and presented with computing devices or digital tools. [12.DCA](#)

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- 1 Represent complex data using interactive data visualizations or computational models.** [12.DCA.1](#)

**Access:** Effective searches strategies can locate information for intellectual or creative pursuits. [12.A](#)

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- 1 Build knowledge by actively exploring real-world issues and problems, developing ideas and theories, and pursuing answers and solutions.** [12.A.1](#)

**Evaluate: Information sources can be evaluated for accuracy, currency, appropriateness, and purpose.** 12.E

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- 1 Explain source selection based on accuracy, perspective, credibility, and relevance of information, media, data, or other resources. 12.E.1

**Create: It is important to both consume and produce information to be digitally literate.** 12.C

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- 1 Exhibit perseverance, a tolerance for ambiguity, and the capacity to work with open-ended problems in the design and creation process. 12.C.1

**Intellectual Property: Respect for the rights and obligations of using and sharing intellectual property.** 12.IP

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- 1 Debate laws and regulations that impact the development and use of software. 12.IP.1
- 2 Continued growth. 12.IP.2
- 3 Continued growth. 12.IP.3

**Impacts of Computing: Past, present, and possible future impact of technology on society.** 12.IC

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- 1 Predict how computing may impact the workplace and personal lives. 12.IC.1

**Social Interactions: Technology facilitates collaboration with others.** 12.SI

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- 1 Evaluate the impact of equity, bias, access, and influence on the availability of computing resources in a global society. 12.SI.1

**Safety & Ethics: There are both positive and negative impacts in social and ethical behaviors for using technology.** 12.SE

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- 1 Continued growth. 12.SE.1
- 2 Illustrate how sensitive data can be affected by malware and other attacks. (CYSEC) 12.SE.2
- 3 Continued growth. 12.SE.3
- 4 Continued growth. 12.SE.4

**Responsible Use: Respect and dignity in virtual and physical communities.** 12.RU

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- 1 Continued growth. 12.RU.1
  - 2 Continued growth. 12.RU.2
  - 3 Continued growth. 12.RU.3
  - 4 Understand the purpose of and comply with Acceptable Use Policies. 12.RU.4
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**Digital Identity: The responsibilities and opportunities that come with living, learning, and working in an interconnected digital world.** 12.DI

**1 Continued growth.** 12.DI.1