

Grade 3

Computational Thinking **1 Develop, utilize, and evaluate algorithms, to model and solve problems.**

- 1 Algorithms can be improved. [CS.3.1.1](#)
 - a Refine multiple algorithms (step by step instructions) for the same task. [CS.3.1.1.A](#)
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Computing Systems and Networks **6 Recognize and analyze security concepts.**

- 1 Steps can be taken to protect private information when connecting devices or engaging in cloud computing. [CS.3.2.1](#)
 - a Discuss real-world cybersecurity problems and how personal information can be protected. [CS.3.2.1.A](#)
 - b Demonstrate safe cloud computing practices. [CS.3.2.1.B](#)
 - c Explain the vulnerabilities of connecting devices. [CS.3.2.1.C](#)
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Cybersecurity **9 Create a security risk profile that recognizes and analyzes security concepts.**

- 1 Personally identifiable information (PII) is any information that allows the identity of the person to whom that information belongs to be inferred. [CS.3.4.1](#)
 - a Define personally identifiable information (PII). [CS.3.4.1.A](#)
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Artificial Intelligence (AI) **11 Evaluate the uses of AI.**

- 1 AI tools have the potential to affect society in a number of ways, and their design should take into account the varying needs of users to ensure usability across populations. [CS.3.5.1](#)
 - a Describe how AI-powered services are used in daily life. [CS.3.5.1.A](#)
 - b Identify changes in how sectors of society operate due to the introduction of AI. [CS.3.5.1.B](#)
 - c Describe how a job will change due to the introduction of AI or robotic technologies. [CS.3.5.1.C](#)
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Digital Citizenship

13 Practice responsible, ethical, and safe use of computing technology and the internet.

- 1 Using digital technologies comes with responsibilities and can have consequences the user needs to consider. **CS.3.6.1**
 - a Discuss and provide examples of cyberbullying and methods of age-appropriate intervention. **CS.3.6.1.A**
 - b Describe the concept of a digital footprint. **CS.3.6.1.B**
 - c Recognize the different motivations that influence appropriate and inappropriate online behaviors. **CS.3.6.1.C**
 - d Discuss examples of cyber-attacks. **CS.3.6.1.D**