

# Grades 2-3

## Impact of Computing 2-3.IC

### Society

- 1 Identify and analyze how computing technology has changed the way people live and work. 2-3.IC.1
- 2 Compare and explain rules related to computing technologies and digital information. 2-3.IC.2

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### Ethics

- 3 Discuss and explain how computing technology can be used in society and the world. 2-3.IC.3
- 4 Identify public and private digital spaces. 2-3.IC.4
- 5 Identify and discuss how computers are programmed to make decisions without direct human input for daily life. 2-3.IC.5

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### Accessibility

- 6 Identify and discuss factors that make a computing device or software application easier or more difficult to use. 2-3.IC.6

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### Career Paths

- 7 Identify a diverse range of roles and skills in computer science. 2-3.IC.7

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## Computational Thinking 2-3.CT

### Modeling and Simulation

- 1 Create a model of an object or computational process in order to identify patterns and essential elements of the object or process. 2-3.CT.1

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### Data Analysis and Visualization

- 2 Identify and describe data collection tools from everyday life. 2-3.CT.2
- 3 Present the same data in multiple visual formats in order to tell a story about the data. 2-3.CT.3

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### Abstraction and Decomposition

- 4 Identify multiple ways that the same problem could be decomposed into smaller steps 2-3.CT.4
- 5 Identify the essential details needed to perform a general task in different settings or situations. 2-3.CT.5

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## Algorithms And Programming

- 6 Create two or more algorithms for the same task. 2-3.CT.6
  - 7 Name/label key pieces of information in a set of instructions, noting whether each name/label refers to a fixed or changing value. 2-3.CT.7
  - 8 Identify steps within a task that should only be carried out under certain precise conditions. 2-3.CT.8
  - 9 Identify and debug errors within an algorithm or program that includes sequencing or repetition. 2-3.CT.9
  - 10 Develop and document a plan that outlines specific steps taken to complete a project. 2-3.CT.10
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## Networks & System Design 2-3.NSD

### Hardware and Software

- 1 Describe and demonstrate several ways a computer program can receive data and instructions (input) and can present results (output). 2-3.NSD.1
  - 2 Explain the function of software in computing systems, using descriptive/precise language. 2-3.NSD.2
  - 3 Describe and attempt troubleshooting steps to solve a simple technology problem. 2-3.NSD.3
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### Networks and the Internet

- 4 Recognize that information can be communicated using different representations that satisfy different rules. 2-3.NSD.4
  - 5 Describe and navigate to various locations where digital information can be stored. 2-3.NSD.5
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## Cybersecurity 2-3.CY

### Risks

- 1 Compare reasons why an individual should keep information private or make information public. 2-3.CY.1
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### Safeguards

- 2 Compare and contrast behaviors that do and do not keep information secure. 2-3.CY.2
  - 3 Identify why someone might choose to share an account, app access, or devices. 2-3.CY.3
  - 4 Encode and decode a short message or phrase. 2-3.CY.4
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### Response

- 5 Identify unusual activity of applications and devices that should be reported to a responsible adult. 2-3.CY.5
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## **Digital Literacy** 2-3.DL

### **Digital Use**

- 1 Locate and use the main keys on a keyboard to enter text independently. 2-3.DL.1
  - 2 Communicate and work with others using digital tools to share knowledge and convey ideas. 2-3.DL.2
  - 3 Conduct basic searches based on student identified keywords. 2-3.DL.3
  - 4 Use a variety of digital tools and resources to create digital artifacts. 2-3.DL.4
  - 5 \* Standard begins in Grade Band 4-6. 2-3.DL.5
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### **Digital Citizenship**

- 6 Describe ways that information may be shared online. 2-3.DL.6
- 7 Understand what it means to be part of a digital community and describe ways to keep it a safe, respectful space. 2-3.DL.7