

# Grade 5

## Computational Thinking DLCS25.5.CT

### AAD Algorithms, Abstraction, and Decomposition DLCS25.5.CT.AAD

- 1 Compare two or more algorithms and discuss each one's advantages and disadvantages for a specific task. DLCS25.5.1
- 2 Create and use a system of representative letters, numbers, or symbols, including binary numbers, to identify patterns in related data. DLCS25.5.2
- 3 Create pseudocode using sequencing and a simple IF/THEN selection. DLCS25.5.3

### P Programming DLCS25.5.CT.P

- 4 Create a working program using variables in a visual programming environment, independently or collaboratively. DLCS25.5.4

## Data Science DLCS25.5.DS

### DCR Data Collection and Representation DLCS25.5.DS.DCR

- 5 Create clear and accurate data visualizations using digital tools to communicate findings to an audience, including labels and titles. DLCS25.5.5
- 6 Evaluate how AI uses data to create representations of the world as a basis for making predictions or decisions. [AI] DLCS25.5.6

## Computing Systems DLCS25.5.CS

### NI Networks and Internet DLCS25.5.CS.NI

- 7 Explain how devices connect and communicate in a simple network. DLCS25.5.7

### C Cybersecurity DLCS25.5.CS.C

- 8 Research and discuss the purposes and potential privacy implications of online tracking methods. DLCS25.5.8
- 9 Discuss possible defenses against forms of online manipulation and impersonation DLCS25.5.9

### HS Hardware and Software DLCS25.5.CS.HS

- 10 Explain the purpose and importance of regular software updates. DLCS25.5.10

## Impact of Computing DLCS25.5.IC

### E Ethics DLCS25.5.IC.E

- 11 Analyze scenarios involving online ethical dilemmas and propose responsible actions based on ethical principles and the school or district's acceptable use policy. DLCS25.5.11

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**S Society** DLCS25.5.IC.S

- 12 Explain how technology can be used to raise awareness, help others, or solve a problem in society. [AI] DLCS25.5.12

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**ET Emerging Technology** DLCS25.5.IC.ET

- 13 Evaluate the positive and negative impacts of emerging technologies on society. [AI] DLCS25.5.13

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**A Accessibility** DLCS25.5.IC.A

- 14 Identify basic accessibility features in websites and digital tools and explain how they support users with different needs. DLCS25.5.14

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**Digital Proficiency** DLCS25.5.DP**IL Information Literacy** DLCS25.5.DP.IL

- 15 Develop search queries and refine them based on results. DLCS25.5.15
- 16 Compare and evaluate multiple sources of online information to determine whether the information is factual. [AI] DLCS25.5.16
- 17 Differentiate among quoting, paraphrasing, and plagiarizing, and demonstrate responsible use of information obtained from other sources. DLCS25.5.17

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**DL Digital Life** DLCS25.5.DP.DL

- 18 Describe how communicating and sharing information online can affect individuals, families, and communities in both positive and negative ways. DLCS25.5.18
- 19 Discuss the long-term implications of online actions for reputation and safety. DLCS25.5.19
- 20 Evaluate the appropriateness of using AI versus seeking human support. [AI] DLCS25.5.20

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**DT Digital Tools** DLCS25.5.DP.DT

- 21 Use digital tools to work with peers, provide feedback, and manage shared projects DLCS25.5.21
- 22 Organize and manage digital files and folders, using file system navigation and naming conventions DLCS25.5.22
- 23 Collaborate on projects that use digital tools for creative problem-solving by applying appropriate prompting strategies. [AI] DLCS25.5.23
- 24 Type 20 words per minute using efficient keyboarding techniques. DLCS25.5.24