

Grade 4

Computational Thinking DLCS25.4.CT

AAD Algorithms, Abstraction, and Decomposition DLCS25.4.CT.AAD

- 1 Build and revise an algorithm and defend the choices made during the process. DLCS25.4.1
- 2 Construct a system of numbers, letters, or symbols to represent information. DLCS25.4.2
- 3 Analyze given sub-problems while addressing a larger problem. DLCS25.4.3
- 4 Use flowcharts to create a plan or algorithm. DLCS25.4.4
- 5 Describe the structure and function of a simple pseudocode. DLCS25.4.5

P Programming DLCS25.4.CT.P

- 6 Create a working program using conditional statements and loops in a visual programming environment, working in collaboration with others. DLCS25.4.6

Data Science DLCS25.4.DS

DCR Data Collection and Representation DLCS25.4.DS.DCR

- 7 Collect and organize data to answer a question, using a variety of computing and data visualization methods. DLCS25.4.7
- 8 Explain how AI systems use data to make predictions or decisions.
[AI] DLCS25.4.8

Computing Systems DLCS25.4.CS

NI Networks and Internet DLCS25.4.CS.NI

- 9 Explain how cloud computing allows users to access files and programs over the Internet. DLCS25.4.9
- 10 Identify the domain name and protocol in a URL. DLCS25.4.10

C Cybersecurity DLCS25.4.CS.C

- 11 Describe various forms of suspicious online activity. DLCS25.4.11
- 12 Discuss possible strategies to protect themselves from malicious online activity. DLCS25.4.12

HS Hardware and Software DLCS25.4.CS.HS

- 13 Describe how hardware and software work together as a system to accomplish tasks. DLCS25.4.13
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Impact of Computing DLCS25.4.IC

E Ethics DLCS25.4.IC.E

- 14 Explain the potential consequences of inappropriate online behavior and identify strategies for prevention and response. DLCS25.4.14
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S Society DLCS25.4.IC.S

- 15 Explain how technology has changed the ways people communicate and interact, and describe the positive and negative effects of these changes. DLCS25.4.15
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ET Emerging Technology DLCS25.4.IC.ET

- 16 Analyze and discuss the benefits and challenges of using emerging technologies in learning and daily life. [AI] DLCS25.4.16
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A Accessibility DLCS25.4.IC.A

- 17 Explain how creating digital content with accessibility in mind (Universal Design Principles) can benefit all users. DLCS25.4.17
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Digital Proficiency DLCS25.4.DP

IL Information Literacy DLCS25.4.DP.IL

- 18 Utilize search strategies to find accurate and relevant online information. [AI] DLCS25.4.18
- 19 Evaluate the credibility of an online source based on given criteria. DLCS25.4.19
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DL Digital Life DLCS25.4.DP.DL

- 20 Explain why digital platforms may include advertisements and collect personal information DLCS25.4.20
- 21 Create and share digital content that reflects respectful communication to demonstrate responsible online interactions. DLCS25.4.21
- 22 Describe the user's responsibilities for digital footprints, both their own and those of others. DLCS25.4.22
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DT Digital Tools DLCS25.4.DP.DT

- 23 Use digital tools to create images, audio files, or videos to complete assignments or share ideas. DLCS25.4.23
- 24 Explain the ways users save information in an organized manner on digital devices. DLCS25.4.24
- 25 Craft a process for creating prompts which includes testing them, getting feedback, and refining them over time based on how well the AI performs. [AI] DLCS25.4.25
- 26 Type 15 words per minute using efficient keyboarding techniques. DLCS25.4.26