Alabama Digital Literacy and Computer Science

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

ET Emerging Technology DLCS25.5.IC.ET

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

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

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

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

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