Alabama Digital Literacy and Computer Science

Grade 6

Computational Thinking DLCS25.6.CT

AAD Algorithms, Abstraction, and Decomposition DLCS25.6.CT.AAD

1. Create pseudocode using sequencing, selection, and iteration applying relational and logical operators to control program flow. DLCS25.6.1
2. Differentiate between flowcharts and pseudocode and create both to solve a task. DLCS25.6.2
3. Trace and debug pseudocode to identify outcomes and correct logic errors. DLCS25.6.3
4. Break a task into smaller steps and evaluate the purpose and effectiveness of each step to solve a problem. DLCS25.6.4
5. Explain how abstraction simplifies tasks, using real-life examples. DLCS25.6.5

P Programming DLCS25.6.CT.P

6. Create a program that includes sequencing, selection, and iteration. DLCS25.6.6
7. Create an interactive program using sequential commands and user input to control basic program actions, like movement or responses. DLCS25.6.7

Data Science DLCS25.6.DS

DCR Data Collection and Representation DLCS25.6.DS.DCR

8. Differentiate between numeric and text data types and construct simple data structures. DLCS25.6.8
9. Explain why computers use a binary system. DLCS25.6.9

DA Data Analysis DLCS25.6.DS.DA

10. Create graphs or charts from simple datasets to identify patterns, and describe key findings. DLCS25.6.10
11. Generate and interpret descriptive statistics, including mean, median, and mode, to summarize data. DLCS25.6.11

MS Modeling and Simulation DLCS25.6.DS.MS

12. Use basic models or simulations to test how changes in input affect outcomes. DLCS25.6.12

Computing Sy

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NI Networks and Internet DLCS25.6.CS.NI

13. Explain the basic roles of routers, IP addresses, domain names, and servers in network communication. DLCS25.6.13

14 Differentiate between the Internet and the World Wide Web. DLCS25.6.14

C Cybersecurity DLCS25.6.CS.C

15 Identify common online threats, including social engineering, and describe safe practices to protect personal information. DLCS25.6.15

16 Explain how strong passwords and multi-factor authentication help protect data. DLCS25.6.16

17 Compare safe and unsafe online behaviors related to social media use, personal identifiable information, and cyberbullying. DLCS25.6.17

HS Hardware and Software DLCS25.6.CS.HS

18 Perform basic troubleshooting to solve hardware problems. DLCS25.6.18

19 Identify examples of system and application software, and match common applications to appropriate tasks DLCS25.6.19

20 Explain the purpose of an operating system and describe how it manages hardware and software resources. DLCS25.6.20

Impact of Computing DLCS25.6.IC

CP Career Paths DLCS25.6.IC.CP

21 Identify a variety of careers that relate to or utilize computer science skills. DLCS25.6.21

E Ethics DLCS25.6.IC.E

22 Summarize major state and federal laws related to technology use, including those regulating copyright and intellectual property. DLCS25.6.22

23 Describe how AI systems are used in everyday life and examine the ethical considerations they raise. [AI] DLCS25.6.23

S Society DLCS25.6.IC.S

24 Explain how computing technologies have changed and will continue to change the way people communicate, learn, and work in their daily lives and communities DLCS25.6.24

ET Emerging Technology DLCS25.6.IC.ET

25 Identify examples of relevant emerging technologies and describe their purposes. [AI] DLCS25.6.25

A Accessibility DLCS25.6.IC.A

26 Evaluate accessibility features in digital tools and explain how they improve usability for individuals with diverse abilities. DLCS25.6.26

Digital Pr

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IL Information Literacy DLCS25.6.DP.IL

27 Analyze digital content for reliability and cite sources properly. DLCS25.6.27

DL Digital Life DLCS25.6.DP.DL

28 Investigate their own digital footprints and describe the effects digital footprints can have on themselves and others. DLCS25.6.28

DT Digital Tools DLCS25.6.DP.DT

29 Create and apply a structured system for organizing files, folders, and subfolders to manage and retrieve digital work efficiently. DLCS25.6.29

30 Identify AI and non-AI technologies and features when using digital tools. [AI] DLCS25.6.30

31 Input text at a rate of 25 words per minute via keyboard or alternative text input method. DLCS25.6.31