

K-12 Computer Science Standards Writing Steering Committee

Claiborne Building | Thomas Jefferson Room 1-136 | 1201 North Third Street, Baton Rouge, LA 70802

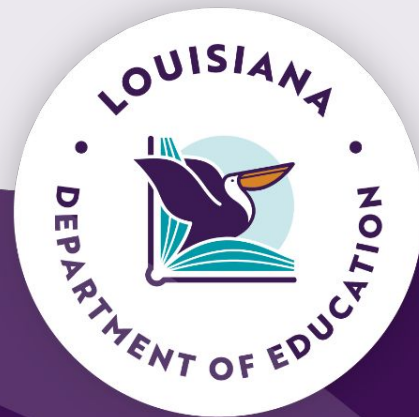


August 27, 2024

Call to Order



Roll Call



Agenda



Agenda

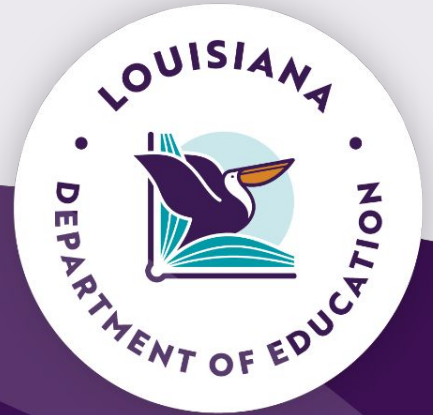
- I. Call to Order
- II. Roll Call
- III. Approval of minutes of the meeting held August 13, 2024
- IV. Consideration of a summary report regarding the final grade band workgroup recommendations for computer science content standards
- V. Consideration of K-12 computer science standards draft



Approval of minutes of the meeting held August 13, 2024



Consideration of a summary report regarding the final grade band workgroup recommendations for computer science content standards



General Feedback

- All workgroups had feedback on adding precision to the standards.
- Suggestions for the refinement of the glossary were provided from all three workgroups.
- There were 6 specific standards that the workgroups amended, reorganized, or changed.



Concept 1: Computing Systems

Subconcept 1: Hardware and Software

Grade Band	Standard	Version Status
9-12	1B. Compare and contrast levels of interactions between an application's software, system's software, and hardware layers.	Removed
	1B. Analyze the levels of interactions between application software and system software as well as the hardware layers.	Proposed replacement standard

Concept 2: Networks and the Internet

Subconcept 1: Hardware and Network Communication

Grade Band	Standard	Version Status
9-12	1A. Evaluate a network's scalability, reliability, and appropriateness by describing the relationship between routers, switches, devices, topology, and addressing (MAC, IP, Subnet, Gateway).	Maintained
	1B. Compare and contrast levels of interactions between an application's software, system's software, and hardware layers.	Deleted due to being a duplicate on sub concept 2C
	1B. Illustrate how to trace data through a network model, explaining the interactions that occur throughout.	Maintained

Concept 3: Data and Analysis

Subconcept 1: Data Representation

Grade Band	Standard	Version Status
6-8	1A. Describe how different representations of real-world phenomena such as letters, numbers, and images are encoded as data.	Deleted from this subconcept and moved to Data Storage 3A
	1A. Evaluate the most efficient and effective ways to arrange, collect, and visually represent data to inform others.	Proposed replacement standard moved from Data Storage 3A
	1B. Analyze and explain the connection between data sets and their graphical representations .	Maintained

Concept 3: Data and Analysis

Subconcept 3: Data Storage

Grade Band	Standard	Version Status
6-8	3A. Evaluate the most efficient and effective ways to arrange, collect, and visually represent data to inform others.	Deleted from this subconcept and moved to Data Representation 1A
	3A. Describe how different representations of real-world phenomena such as letters, numbers, and images are encoded as data.	Proposed replacement standard moved from Data Representation 1A
	3B. Propose methods to back up data safely and the appropriate practices for data risk management.	Maintained

Concept 4: Algorithms and Programming

Subconcept 1: Variables and Algorithms

Grade Band	Standard	Version Status
9-12	1E. Identify and explain how a derived data type can be utilized in a real word scenario.	Proposed standard

Concept 4: Algorithms and Programming

Subconcept 4: Program Development

Grade Band	Standard	Version Status
9-12	4E. Evaluate and iteratively refine computational artifacts to make them more usable and accessible (e.g., correctness, usability, readability, and program efficiency).	Removed
	4E. Develop and utilize test cases to verify that a program performs according to its design specifications.	Maintained

Consideration of K-12 computer science standards draft

