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

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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