

K-12 Computer Science Standards Writing Steering Committee

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

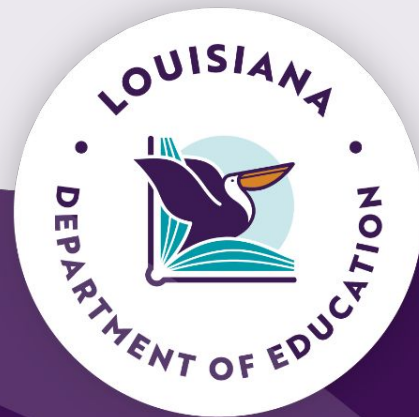


May 7, 2024

Call to Order



Roll Call



Agenda



Agenda

- I. Call to Order
- II. Roll Call
- III. Introductions
- IV. Consideration of the report on the K-12 Computer Science Education Plan
- V. Consideration of the Louisiana Computer Science Framework
- VI. Consideration of break-out sessions for computer science grade band work groups
- VII. Consideration of an update report regarding the computer science grade band work groups



Introductions



Welcome

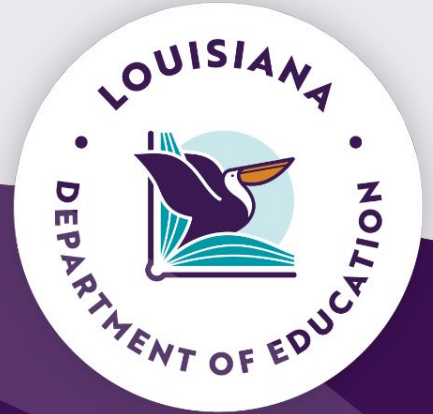
Introductions

Please tell us

- your name; and
- briefly describe your connection to Computer Science Education.



Consideration of the report on the K-12 Computer Science Education Plan



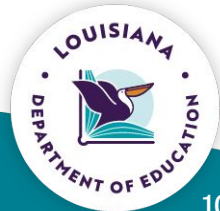
History and Context

- Act 541 of the 2022 Regular Legislative Session created the Louisiana Computer Science Education Advisory Commission (CSEAC).
- On October 11, 2023, the Board of Elementary and Secondary Education (BESE) received CSEAC's report and directed the Louisiana Department of Education (LDOE) to begin the process for establishment of a content standards committee and creation of a state plan for computer science education.
- In April 2024, BESE appointed the membership and approved the process for development of K-12 Computer Science Content Standards.



Vision for K-12 Computer Science

Louisiana's vision for K-12 Computer Science Education is to increase **digital literacy skills** in all students through actively engaging with a **progression of computer science concepts and experiences** that prepare students for success in society and with future **career opportunities**.



Louisiana's Computer Science Education Plan

Key Actions

1. Establish state content standards in CS for grades kindergarten through twelve.
2. Provide a K-12 CS education pathway to postsecondary education institutions and the workforce.
3. Provide guidance for a CS course sequence for high school students, ensuring alignment to postsecondary entrance and eligibility for the Taylor Opportunity Program for Students (T.O.P.S).
4. Support CS teacher professional development and additional certification pathways.
5. Develop technical assistance grants to public schools for the creation and expansion of CS courses.
6. Identify funding strategies to support and maintain CS teacher training and course offerings for students.



K-12 Computer Science Content Standard Goals

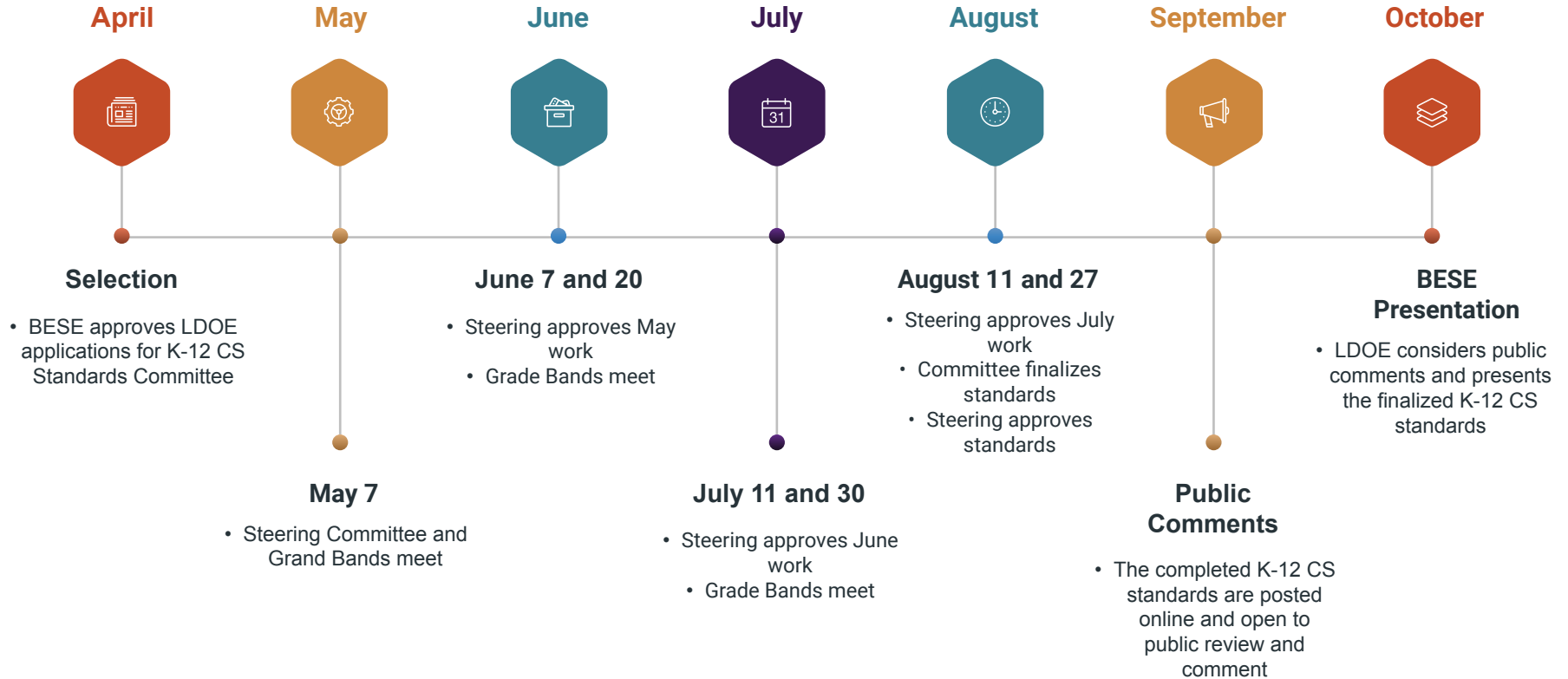
Louisiana computer science (CS) content standards should be comprehensive and prepare students for college and the workplace, as determined by educators, experts, and business and industry leaders.

Our graduates will:

- apply analytical and critical thinking skills to real-world situations;
- demonstrate digital literacy and digital citizenship; and
- utilize technology skills as employable citizens to meet present and future workforce needs.



K-12 CS Standards Writing Timeline

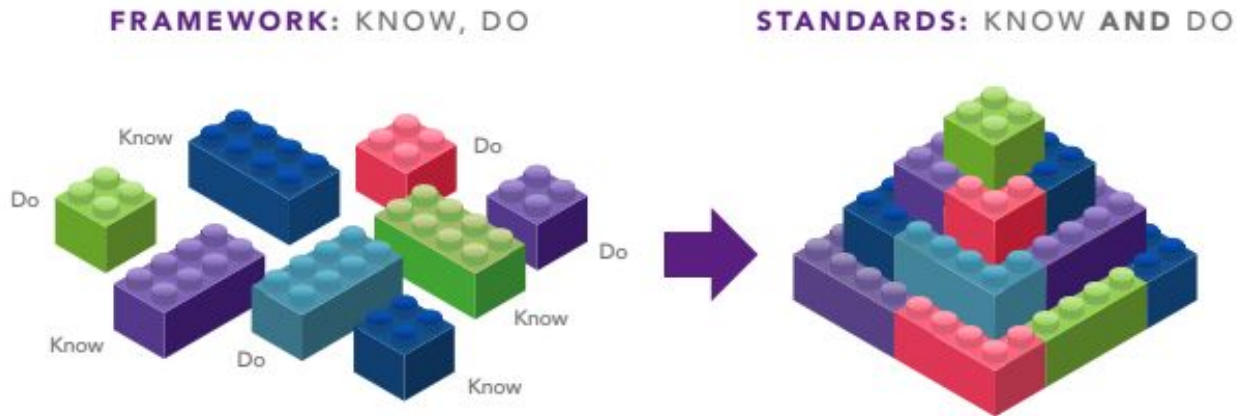


Consideration of the Louisiana Computer Science Framework



What is the Louisiana K-12 Computer Science Framework?

- A set of guidelines for computer science education in kindergarten through high school
- Developed by a collaborative effort of leading computing organizations
- Focuses on core concepts and practices, not specific curricula
- Aims to make computer science education accessible to all students

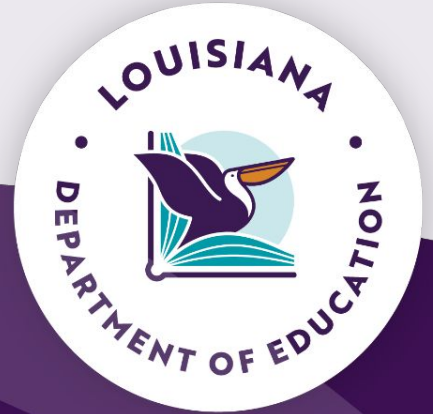


Louisiana's Computer Science Framework

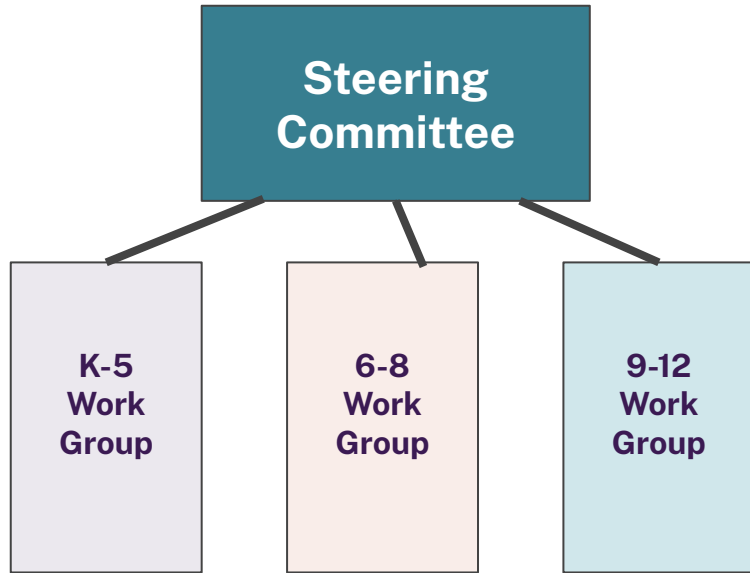
Core Concepts	Core Practices
1. Computing Systems	1. Fostering responsible cyber citizenship
2. Networks and the Internet	2. Collaborating around computing
3. Data and Analysis	3. Recognizing and defining computational problems
4. Algorithms and Programming	4. Developing and using abstractions
5. Impacts of Computing	5. Creating computational artifacts
	6. Testing and refining computational artifacts
	7. Communicating about computing



Consideration of break-out sessions for computer science grade band work groups



K-12 CS Standards Committee: Organization and Roles



Steering Committee

- 9 members
- Guides process and updates
- ***Makes final recommendation to BESE***

Grade Band Work Group

- Reviews public comments
- Has members who serve on Steering Committee as well
- ***Drafts Standards***



Computer Science Standards Steering Committee

	Ashley Townsend	
Bonnie Achee	Clint Coleman	Laurie Savail
Amanda Austin	Stephen Goebel	Jewell Simon
Suresh Chiruguru	Lynette Jackson	Rebecca Snead



K-5 Work Group

Lacey Bass	Alva Millican
Sandi Bourque	Laurie Salvail*
Melissa Flowers	John Schnake
Lynette Jackson*	Rebecca Snead*

6-8 Work Group

Bonnie Achee*	Ned Fasullo
Clint Coleman*	Lea Ann Hawkins-Fisher
Christina Cope	Begona Perez-Mira
Crystal DeMoura	Jewell Simon*
Jackson Desalvo	

9-12 Work Group

Amanda Austin*	Shirley Neal
Suresh Chiruguru*	Chris Oubre
Tia Fields	Bill Ray
Avery Geraci	Vassil Roussev
Stephen Goebel*	Laurie Seeder

* Steering Committee Member

Work Group Activity

1. Individually, use your Louisiana CS Framework thought catcher to make notes and capture your reflections on the prompts. (5 minutes)
2. Once in your work group, designate a spokesperson for the group. (1-3 minutes)
3. Use the Post-it Notes to add thoughts or questions to your chart paper. Use this to center your discussion on what is important or what may need thought space. (15 minutes)
4. Spokesperson captures the feedback your group agrees upon on one thought catcher to present to the committee. (5 Minutes)
5. We will reconvene as a group and share feedback.



Recess



Consideration of an update report regarding the computer science grade band work groups



Proposed Work Group Reporting Option

1. Individually, use your work bands have designed standards for Concept 1: Computing Systems. Your work band representative has prepared brief remarks to make.
2. The LDOE CS Team member has captured a detailed set of notes on the work groups standards.
3. With the Committee's approval, the LDOE can prepare an in-depth presentation and documents for the Steering Committee to review all the standards at the start of the June 7 meeting.
4. This will provide more time for all members to explore the materials and reflect on the other members' work. The materials will be discussed with opportunity for public comment at the June 7 meeting.



Schedule of K-12 Computer Science Standards Writing Committee Meetings

Date and Time	Meeting and Location
May 7, 2024, 9 a.m. - 4 p.m	Meeting 1 - Claiborne Building, Baton Rouge
June 7, 2024, 9 a.m. - 4 p.m	Meeting 2 - Claiborne Building, Baton Rouge
June 20, 2024, 9 a.m. - 4 p.m	Meeting 3 - Claiborne Building, Baton Rouge
July 11, 2024, 9 a.m. - 4 p.m	Meeting 4 - Claiborne Building, Baton Rouge
July 30, 2024, 9 a.m. - 4 p.m	Meeting 5 - Claiborne Building, Baton Rouge
August 13, 2024, 9 a.m. - 4 p.m	Meeting 6 - Claiborne Building, Baton Rouge
August 27, 2024, 9 a.m. - 4 p.m	Meeting 7 - Claiborne Building, Baton Rouge

Please contact STEM@la.gov

