Governor Brown signed (Hagman), a bill that requires that the Instructional Quality Commission (IQC) consider developing and recommending standards to the State Board of Education (SBE) before July 31, 2019, and that this requirement only applies if a related appropriation is made in a future budget act.



Why CS Standards?



computer science standards? Critics argue that having rigid standards

and standadized tests discourages schools from being innovative and inspiring creativity in their students. Especially in a field like computer science that is rapidly evolving, standards are difficult to update. The process for developing standards can be lengthy, arduous and costly.

Standards are guideposts for schools. Educators and families use them as a tool to

Why are standards important?

focus on what students are expected to learn in each grade. These standards become the basis for the way teachers are prepared, what they teach and what students will learn and be able to do. Standards help determine how the learning is measured to make sure we are meeting our goals. And, standards provide an element of consistency from course to course and classroom to classroom.



We know that access and opportunities to computer science education vary across race and socioeconomic lines. Standards

could help provide a systematic approach that ensures all students, including underrepresented students in CS, have equal access to high quality CS educational opportunties.



Who, When, How



example, California's Next Generation Science Standards took six years to develop and approve, and then a separate process to adopt the curriculum frameworks that guide successful implementation.



IQC to do this work and will play an integral role in determining the direction the CS standards will take.



most respected and knowledgeable educators, university

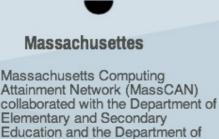
professors, researchers, computer science specialists, and industry experts will be assembled and the process will include several public input periods and external review by many stakeholders.



order to create a budget item to support

Who else has CS Standards?

this process.



Higher Education to develop Computer Science and Digital Literacy Standards. These will be released in fall, 2015.



Maryland

Other states working

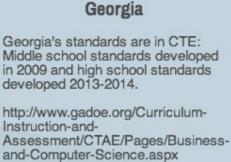
on standards:

Washington

Indiana

Arkansas

Florida



Cities working to

develop CS

Standards:

Los Angeles USD

San Francisco USD

New York City DoE

What about national standards in CS? CSTA K-12

Computer

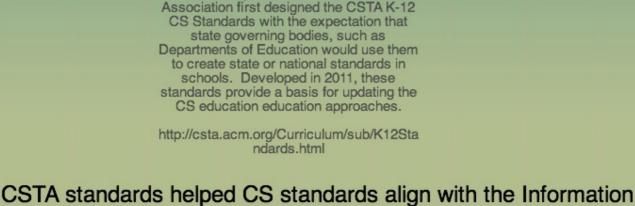
csta





Other countries with

Standards



The Computer Science Teachers

Communications Technology Standards for Career Technical Education. Should CS standards be aligned with the Common Core?

Are there alternatives

to statewide CS

standards? Currently in California, there are informal CS standards that are aligned with the Information Communications Technology Standards for Career Science

Technical Education. Computer Developing California "guidelines" or "frameworks" is an alternative to a

formal state standards process. A less timeconsuming and costly process, guidelines or frameworks could more easily adapt to the changing landscape in computer science education.

To stay informed about computer science education in California, become a subscriber to ACCESS. www.access-ca.org org

For questions, comments, or suggestions, contact Julie Flapan, Executive Director at flapan@gseis.ucla.edu.