K-12 Computer Science Standards Update

VLAC Meeting
April 18, 2017
The Standards of Learning shall include, but not be limited to, the basic skills of communication (listening, speaking, reading, and writing); computation and critical reasoning, including problem solving and decision making; proficiency in the use of computers and related technology; computer science and computational thinking, including computer coding; and the skills to manage personal finances and to make sound financial decisions.
Appropriation

Supplemental Education Assistance Programs:

• Computer Science Training For Teachers- FY17 $550,000    FY18 $550,000

UPDATE- legislation has changed and the funds will be housed with the No. VA Community College
General Work to Date

- Developed a Decision Brief and Schedule
- Presented the schedule to the Board of Education in February 2017
- Created two CS-related VDOE webpages
  - timeline, resources, area for public comment
  - URLs

http://www.doe.virginia.gov/testing/sol/standards_docs/computer-science/index.shtml
Superintendent’s Memo 036-17

- Announced the schedule of the review process
- Announced the availability of a comment page on VDOE’s website for suggestions/feedback on the Computer Science Standards of Learning to be developed;
- Requested that division superintendents share information about the website with instructional staff; and
- Requested that division superintendents nominate members for the Computer Science Standards of Learning Teacher Review Committee
VDOE identified members of the CS Steering and Teacher Review Committees

Advertised by:

• Supt’s Memo
• Teacher Direct
• Listserv emails- Tech Directors, Math teachers, CTE teachers
• Recommendations- Directors within VDOE’s Division of Instruction: STEM, Humanities and Early Childhood, CTE
The Steering Committee

Ultimate Goals:

• Examine CSTA standards and rate-yay, nay, or revise
• Examine existing VA Sol for natural cross-over with CS
• Review the K12CS Framework for missing standards/areas
• Ultimately, develop draft standards
The Steering Committee

• Grade band teams- K-2, 3-5, 6-8, 9-12
• K-5 = integrated standards
• 6-8 = integrated standards, 1 stand alone elective (year, semester, 6 week versions)
• 9-12 = course standards for LEAs to map to (3 levels)
CS Teacher Review Committee and Steering Committee

May 8-10, 2017

• Analyze statewide webpage input
• Review national and international documents and reports as necessary
• Make recommendations for potential changes
The CS External Committee

May 11, 2017

Members are from educational organizations, colleges/universities, business/industry

• Analyze the draft standards
• Make recommendations for potential changes
Summer 2017

• Present the draft standards to the Board of Education for first review
• Present the draft standards for public comment
• Hold public hearings related to the draft standards
Fall 2017

• Make final revisions to the draft standards with the Steering Committee

• The Superintendent of Instruction will present the standards for final review and adoption to the Board of Education