


Discussion on  
**Teaching Informatics (Computer  
Science) for Secondary School (K-12)**





# Concern about Informatics Education at Schools

- **ACM** - Association for Computing Machinery
- **ACM SIGSCE** - Special Interest Group for Computer Science Education
- **CSTA** - Computer Science Teachers Association (USA)
- **IFIP** – International Federation for Information Processing

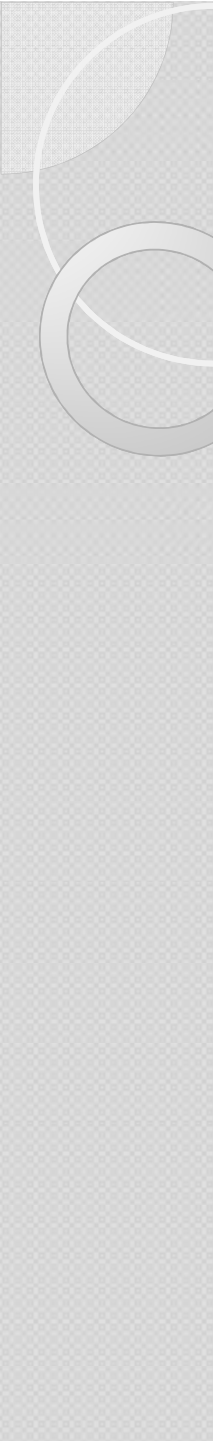


# CSTA K-12 Computer Science Standards

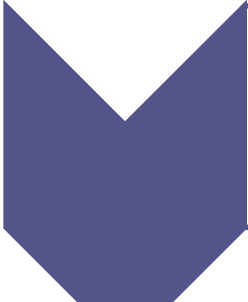
March 31, 2011 (draft version)

Chair - Allen Tucker, Bowdoin College, USA

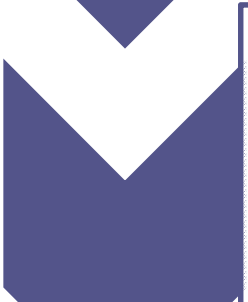
This document provides comprehensive standards for K–12 computer science education that can be used to **integrate computer science fluency and competency** throughout **primary and secondary schools**, both in the United States and throughout the world.

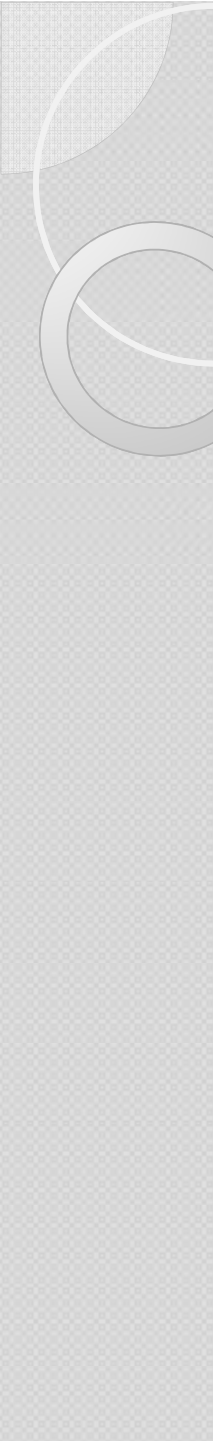
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- To be well-educated citizens in a computing-intensive world and to be prepared for careers in the 21st Century, it is imperative that students have a clear understanding of the principles and practice of computer science.

# These standards provide a three-level framework for CS

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- It is expected that the learning outcomes in Level 1 (K-6) will be addressed in the context of other academic subjects.

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- The learning outcomes in Level 2 (K-9) may be addressed either through other subjects or in discrete computer science courses.

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- Level 3 is divided into three separate courses:
    - Computer Science in the Modern World
    - Computer Science Principles, and
    - Topics in Computer Science.

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- Additional information about ongoing activities to support CS education in K–12 can be found at the CSTA's Web site **[csta.acm.org](http://csta.acm.org)**