

# CSTA K-12 Web Repository



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# What?

- A searchable database of instructional materials, lesson plans, and other resources that have never before been collected in one place for use by all CS teachers



# Overall Project Goal

To establish a Web-based multi-grade repository of appropriate materials for high school computer science teachers to use to support their teaching and assist in updating their technical and pedagogical skills.



# Why?

- Most of us teach in isolation.
- Our field is constantly changing, and so must our skills and teaching resources.
- In the 2004 CSTA survey of secondary CS teachers, we indicated that we need better access to resources.
- Excellent materials have been developed by individuals and organizations, but we had no centralized source.



# Funding & Support

- College Board and CSTA funded the planning and development.
- Sun provided the server hardware.
- DSpace (open-source digital repository system software), customized by Villanova students with faculty supervision.
- Volunteers classified seed materials.



# Project Goals:

- To support teachers in their efforts to upgrade their skills.
- To promote the teaching of computer science in the high schools
- To promote the teaching of appropriate foundational computer science concepts at all grade levels.



## Project Goals (cont'd):

- To increase understanding of the breadth of computer science.
- To support teachers in attracting a diversity of students to the discipline of computer science.
- To support the long-term educational goals of both the ACM K-12 Education Task Force and AP Computer Science.



# Who?

In 2003, a cooperative effort was begun by

- The College Board (AP CS Ad Hoc Committee for Teacher Professional Development)
- ACM K-12 Education Task Force

Oversight was assumed by CSTA (Computer Science Teachers Association) in 2005.

# Initial Repository Contents

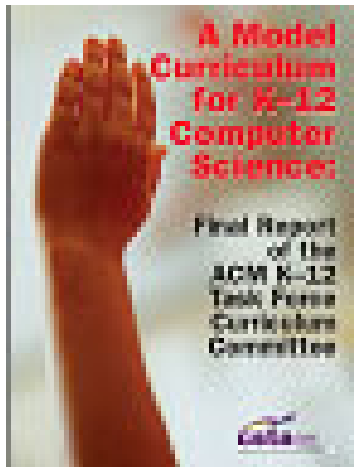
- Seeded with materials from CSTA workshops:



- A few submissions have come from individuals

# Organization

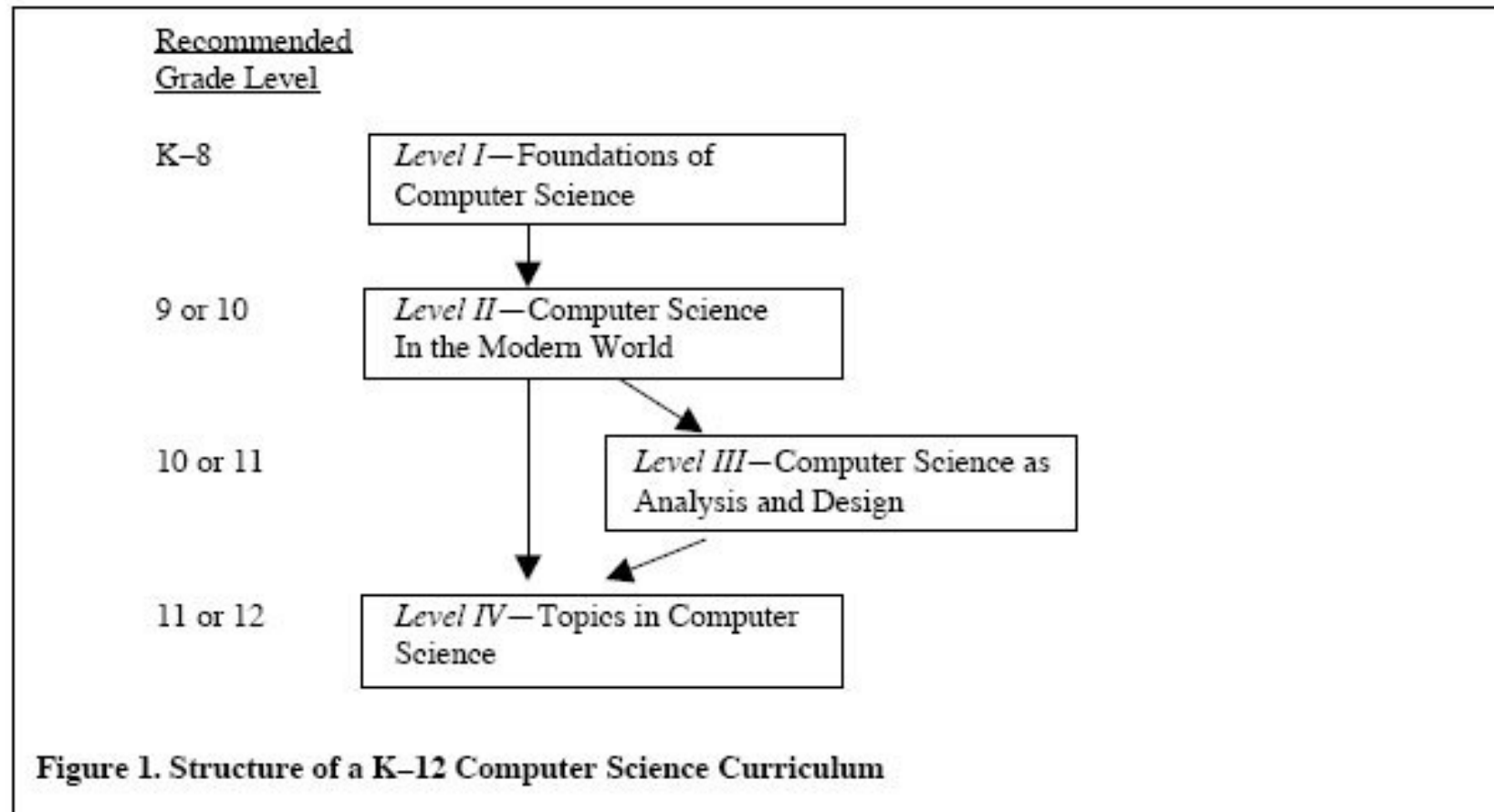
Grouped into collections, based on the *ACM Model Curriculum for K-12 Computer Science*, and the *AP CS Course Description*.



<http://csta.acm.org>

<http://apcentral.collegeboard.org>

# ACM Model Curriculum for K-12 CS





# How? (Using the Repository)

- Browse by classification
- Search by title, author, keyword, or date
- Download
- Free to CSTA members (and first year of membership is free!)



# Submitting Resources

- Who? CSTA members
- When? By the end of July
- Guidelines for classifying and submitting will be available on CSTA Web site (template for organizing info, explanation of fields)
- All submitted resources will be reviewed before approval (small team of educators)



## For more info...

- CSTA: <http://csta.acm.org>  
(link to repository, guidelines for submission, template)
- DSpace: <http://www.dspace.org/> (FYI)