Computer Science Principles



Why Computer Science? Every 21st century student should have the opportunity to learn computer science (CS). The basics of CS help nurture creativity and problem-solving skills, and prepare students for a future in any field or career.

Advanced Placement Computer Science for All Students!

Code.org's Computer Science Principles (CSP) is an introductory Advanced Placement (AP®) course designed to broaden participation in computer science. The official AP® exam launches in the 2016-17 school year.

Engaging Curriculum

The curriculum is written to support students and teachers new to the discipline with daily lesson plans made up of inquiry-based activities, videos, assessments, and computing tools that empower students to discover core computing concepts for themselves.

One-Year Professional Learning Program

Summer: Teachers attend a 5-day in-person, conference-style workshop designed to introduce the CS concepts from the curriculum, AP elements of the course, and core teaching practices (travel may be required).

School Year: Teachers continue with job-embedded workshops and online modules focused on supporting teachers in their first year of implementation.

Teachers all over the nation recognize the importance of computer science.



"Pretty much every student wants to take the next CS courses we'll offer."



"Students are going to leave with a new appreciation for CS in terms of creative thinking and its impact on everyday lives."

Curriculum Features:

- Daily instructional lesson plans that include inquiry/equity-based pedagogy and background content
- Formative and summative assessments, project exemplars and rubrics
- Widgets and simulators for exploring computing concepts like text compression and the internet
- Videos for students (tutorials, instructional) and teachers (tips for structuring and delivering lessons)
- Code Studio a learning platform that organizes lesson plans and activities with student and teacher dashboards

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• App Lab — Code.org's online JavaScript programming environment



Unit 1: The Digital Representation of Information	Explore the technical challenges and questions that arise from the need to represent digital information in computers and transfer it between people and computational devices.
Unit 2: The Internet	Discover the structure and design of the internet and the implications of those design decisions including the reliability of network communication, the security of data, and personal privacy.
Unit 3: Programming	Learn how to program in the JavaScript language and create small applications (apps) that live on the web with App Lab. Click and drag visual blocks or just type text, switching back and forth at will.
Unit 4: Data	Collect, use, manipulate, and visualize data to extract new knowledge and tell a story. Understand benefits and drawbacks of living in a highly connected, data-driven world by exploring issues of privacy and security.
Unit 5: Performance Tasks	Design a project plan, then work independently and collaboratively to complete performance tasks for submission to the College Board.

Apply now!

http://code.org/educate

For curriculum, videos, and support documents, visit:

http://code.org/educate/csp

