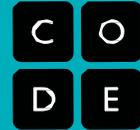


Code.org K-5 Curriculum



Why Computer Science

Every 21st-century student should have the opportunity to learn computer science. The basics help nurture creativity and problem-solving skills, and prepare students for any future career. Software and computers are everywhere, but still less than one in ten schools teaches computer science.

Free, high-quality professional development workshops

Code.org is offering free workshops for K-5 educators and content-area teachers (librarians, tech-ed specialists, etc.) interested in teaching the Code.org elementary school computer science curriculum. The workshop will cover content for all three courses and teachers will receive the supplies they need to teach the course at no cost. These workshops will be led by experienced Code.org K-5 Affiliates in over 60 cities across the United States. Go to <http://code.org/k5> to find a workshop in your area.

The earlier, the better!

Code.org has developed an elementary school curriculum that allows even the youngest students to explore the limitless world of computing. The courses blend online, self-guided and self-paced tutorials with “unplugged” activities that require no computer at all. Each level consists of about 20 lessons that may be implemented as one unit or over the course of a semester. Even kindergarten-aged pre-readers can participate.

The courses are flexible so educators can tailor them to their class based on their students’ developmental level and prior experience. The lessons align to CSTA Computer Science and ISTE standards, and reinforce concepts and skills taught in other subject areas by integrating national Math, English Language Arts, and Science standards.

Course 1

- Early-readers (ages 4-6)
- Sequences
 - Loops and events
 - Meaningful collaboration with others
 - Problem-solving and perseverance techniques
 - Internet safety

Course 2

- Beginners, readers (ages 6+)
- Conditionals
 - Algorithms
 - Binary code
 - Debugging
 - Societal impacts of computing

Course 3

- Prereq. Course 2 (ages 6+)
- Problem decomposition
 - Functions
 - Nested loops and conditionals
 - Digital citizenship
 - Internet transmission methods

By the end of each course, students can create interactive games or stories they can share with anyone.

Teachers: Come to a workshop in Tuscaloosa!

Two workshops will be offered to teachers in Tuscaloosa on December 8th, 2014, and February 4th, 2015.

Who: Any teacher who works with 4th/5th grade students

When: 12/8/14 and 2/4/15 from 8:30am-4:00pm

How to sign up:

Where: TCTA, 2800 Martin Luther King Jr Blvd, Tuscaloosa AL

December 8: <http://code.org/professional-development-workshops/2477384>

Instructor: Dr. Jeff Gray, Univ. of Alabama

February 4: <http://code.org/professional-development-workshops/2477397>