

**HOURS
of
CODE!**

Free Coding Resources

Code.org

<http://code.org/educate>

Pre-K through 12th Grade

Code.org provides free educational resources for teachers and students, including a full curriculum for elementary, middle, and high school students. Curriculum is available for download, and includes computer activities with accompanying vocabulary. Students can work individually or as a class.

Hour of Code

<http://hourofcode.com>

Pre-K through 12th Grade

Hour of Code is an event to promote Computer Science education, and was created by Code.org. Each December, new tutorials are put together by many technology organizations and web sites, and made available to anyone with a computer, tablet, or smartphone. Tutorials are labeled by age appropriateness, and are self-guided (we recommend working with a partner).

Khan Academy

<http://khanacademy.org/computing>

6th through 12th Grade

Khan Academy provides free online tutorials for all subjects (and all grade levels), including two courses in Computer Science and Computer Programming. Students can create a free account with Khan Academy and track their progress through a full course on web design, or a computer language.

Codecademy

<http://codecademy.com>

8th through 12th Grade

Codecademy offers full courses to build websites, and learn computer languages used to create Smartphone Apps. Additionally, they offer their own curriculum for teachers to use in the classroom. Students can join Codecademy for free, and track their progress as they take classes.

Made with Code_Google

<http://madewithcode.com>

1st through 12th Grade

Made with Code is a project by Google that is intended to engage more females in Computer Science. Made with Code features coding projects that include design and creativity; as well as video profiles of women who have careers in Computer Science. Girls can join the online community to meet mentors and other coders.

Scratch

<http://scratch.mit.edu>

K through 12th Grade

Scratch is a computer language created at MIT in order to teach computer programming to younger students. When using Scratch, students drag and drop commands or code instead of typing full lines. Through the website, students can practice coding on different projects created by the website. This is the same language used on many Hour of Code tutorials, and is a way that beginner students can keep practicing.

CS Unplugged

<http://csunplugged.org>

K through 12th Grade

CS Unplugged offers free activities and games that teach the concepts of Computer Science without a computer. This website is a great resource if computer or internet access is limited. The activities are intended to create an understanding of computers and coding. Activities are available by topic.