

COMPUTER SCIENCE WEEK RESOURCE LIST

Your one-stop shop for information and resources about Hour of Code, hosting an event, etc. All ages
hourofcode.com

Find resources, engage in conversations, and learn more about ways you can celebrate Computer Science Education Week.

<https://www.csedweek.org/>

Find the perfect fit for your learning environment: Code.org courses, tutorials, and more designed for all ages and experience levels. All ages

<https://studio.code.org/catalog?marketingInitiative=hoc>

Code a Dance Party! Find both online and offline activities to get you moving during your Hour of Code. Grades 2+

<https://code.org/dance>

Computer science is about so much more than coding! Learn about artificial intelligence (AI), machine learning, training data, and bias, while exploring ethical issues and how AI can be used to address world problems. Enjoy Code.org's first step in a new journey to teach more about AI. When you use the AI for Oceans activity you are training real machine learning models. #CSforGood Grades 3+

<https://code.org/oceans>

Be the hero of your Hour of Code adventure! Explore how Minecraft coding tools engage creativity and computer science fundamentals to solve problems and move through the Minecraft world. Grades 2+

<https://code.org/minecraft>

Hour-long tutorials for middle and high school students. Activities range from beginner to advanced, and cover programming, web design, graphics, music, sports, and more! Grades 6+

<https://codehs.com/hourofcode>

Sometimes “unplugged” is the best way to teach and learn about coding. These five beginner-friendly free lessons are engaging and educational, helping users learn the principles of artificial intelligence and machine learning. No account is required, but you will need to enter an email address to receive the activities, which are available as Google Slides and PDF printables. Grades K-6

<https://edsquare.co/learnai/>

Add coding to the digital escape room format, and the excitement is greatly heightened. This escape room puzzle invites students to use logic, reason, and computer coding to break the firewall which is preventing the entire school from going online. Great fun.

<https://sites.google.com/site/hourofcodedigitalbreakout/>

Khan Academy's interactive videos, challenges, and projects make it easy to dive into STEM teaching and learning coding. The clean, easy-to-navigate interface provides step-by-step guidance and resources for coding drawings, webpages, databases, and more. Create a free account to save resources and document your progress. Not sure where to begin? Consult the teachers' guides, which cover programming with JavaScript, HTML, CSS, SQL, and more. Integrates with Google Classroom. All ages
<https://www.khanacademy.org/hourofcode>

Crafts, games, and activity ideas to engage students of all ages in computer science learning. All ages
<https://b-inspiredmama.com/fun-coding-activities-for-kids/>

Beginner to advanced STEM and CS projects that get students K-12 thinking about computer science principles. All ages
<https://www.sciencebuddies.org/blog/computer-science-coding-projects>

10 fun ideas to engage high school students in coding projects with examples and tutorials. Grades 9-12
<https://www.create-learn.us/blog/high-school-coding-projects/>

Don't let the kids have all the fun! Here are 9 of the best coding games online for adults to learn how to code. Adults
<https://www.freecodecamp.org/news/best-coding-games-online-adults-learn-to-code/>

Solve coding problems ranging from easy to very hard with Leetcode. Grades 8+
<https://leetcode.com/problemset/all/>

Access interactive online learning modules, including Intro to Coding, connecting computer science concepts with careers. This resources is offered to schools fully-funded by the state in partnership with the Idaho STEM Action Center. Learn more at
<https://stem.idaho.gov/apply/learning-blade/>

BootUp's Hour of Code Quests consist of four 1-hour adventures, allowing your students to step into the shoes of a Superhero (for grades K-3) or a Secret Agent (for grades 3-8). These adventures introduce coding challenges and tutorials essential for successfully completing each mission. Join us from December 4th to 7th, as we release a new activity every day. Don't miss out on this exciting opportunity! Register below!

https://docs.google.com/forms/d/e/1FAIpQLSc5umgaUAUIM-hr6ZNXq0soa9FxpZAug_ylir-G6IDIPA-xqw/viewform