



PRINT A POSTER FOR YOUR SCHOOL:

Provo City School District
Innovative Learning

COMPUTER SCIENCE EDUCATION WEEK!

Dec. 5-11

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Build & Develop Simple Games and Apps

We invite you to implement Computer Science lessons in your classes this week to increase our students' awareness of Computer Science.

Computer Science Lessons

COMPUTER SCIENCE EDUCATION WEEK

WE INVITE YOU TO IMPLEMENT COMPUTER SCIENCE LESSONS IN YOUR CLASSES THIS WEEK TO INCREASE OUR STUDENTS' AWARENESS OF COMPUTER SCIENCE.

DEC, 5-11 | **COMPUTER SCIENCE LESSONS**



December 5-11 is Computer Science Education Week! We invite you to implement the appropriate lesson below in your classes this week to increase our students' awareness of Computer Science. Start by watching this 3-minute video about Hour of Code and how you can implement it in your classroom: <https://youtu.be/SrnvvWDM73k>. You are welcome to choose your own activity to do with your students from [Code.org](https://code.org) or the [Hour of Code catalog](#) or use the tutorials we recommend below. No experience is required, though we encourage you to try the activity yourself first!

Grade Level	Overview	Resources
Elementary K-3 Grades	Follow My Code <i>No computer required</i> Students draw visuals to represent steps in a dance, then have a friend try to do the dance.	Follow My Code
	Introduction to Algorithms <i>Nearpod</i> Students learn about algorithms and practice creating them.	Algorithms Nearpod
	Artist <i>Block coding</i> Students learn to use blocks to draw shapes on Code.org	Artist Tutorial Teacher Guide
Elementary 4-6 Grades	Conditionals with Cards <i>No computer required</i> Learn about algorithms and conditional statements in this "unplugged" activity using a deck of cards.	Conditionals with Cards Teacher Guide
	CS Connections <i>No computer required/Potential online research</i> Students will work collaboratively to explore how computer science connects to many industries and the world around them.	CS Connections
	Hello World! <i>Beginning block coding</i>	Hello World!
	StarWars Hour of Code <i>Block coding</i>	StarWars Hour of Code Teacher Guide



	Students will create a StarWars game using block coding	
	<p>Minecraft Hour of Code <i>Block coding</i> Journey through Minecraft with code.</p>	<p>Minecraft Hour of Code Teacher Guide</p>
	<p>Frozen Hour of Code <i>Block coding</i> Use code to join Anna and Elsa as they explore the magic and beauty of ice.</p>	<p>Frozen Hour of Code Teacher Guide</p>
Middle School	<p>CS Heroes <i>No computers required/View online materials/Potential poster creation</i> Learn about the diverse people shaping computer science today. Opportunity for multiple lessons: learning about the heroes, creating posters about students' CS heroes, creating posters about how students will be CS heroes.</p>	<p>CS Heroes</p>
	<p>CS Connections <i>No computer required/Potential online research</i> Students will work collaboratively to explore how computer science connects to many industries and the world around them. Scroll down for 6-12 activity.</p>	<p>CS Connections</p>
	<p>StarWars <i>Block coding/Javascript</i> Students will create a StarWars game using block coding or Javascript</p>	<p>StarWars Hour of Code Teacher Guide</p>
	<p>NASA's Space Jam <i>Beginner block coding</i> Learn about music, astronomy, and coding in this self-guided activity (no coding experience required).</p>	<p>NASA's Space Jam NASA Celebrates Hour of Code</p>
	<p>Tree Life Simulator <i>Comfortable block coding</i> Students Use Scratch to create a simulation that shows the impact of land management and deforestation on trees, wildlife, and the environment.</p>	<p>Tree Life Simulator</p>



High School	CS Heroes <i>No computers required/View online materials/Potential poster creation</i> Learn about the diverse people shaping computer science today. Opportunity for multiple lessons: learning about the heroes, creating posters about students' CS heroes, creating posters about how students will be CS heroes.	<u>CS Heroes</u>
	CS Connections <i>No computer required/Potential online research</i> Students will work collaboratively to explore how computer science connects to many industries and the world around them. Scroll down for 6-12 activity.	<u>CS Connections</u>
	Intro to App Lab <i>Javascript</i> Create your own app in JavaScript using blocks or text.	<u>Intro to App Lab</u> <u>Teacher Guide</u>
	Charting Champions <i>Python</i> Discover the power of lists in the Python programming language by storing Olympic medal data then use the pygal library to create an interactive chart.	<u>Charting Champions</u> <u>Teacher Notes</u>
	Code Your Brand <i>Python</i> Create your digital business card to use for networking and as a technical product showcase.	<u>Code Your Brand</u>