Welcome! NGCP National Webinar: Enjoy Computer Science Education Week with Microsoft MakeCode

Please respond to the poll on your screen

















Enjoy Computer Science Education Week with Microsoft MakeCode December 6th, 2022



NGCP Vision

The vision of the National Girls Collaborative Project is to support and create STEM experiences that are as diverse as the world we live in.







Our Goals Connect + Create + Collaborate

Build and sustain a network

of advocates to provide equitable and inclusive STEM opportunities.



Catalyze equity in STEM

from research to practice by providing actionable knowledge that transforms the STEM experience.



Increase our collective impact

by strengthening organizational effectiveness and enhancing our fiscal sustainability.



NGCP Activities

- Network Partnerships
- IF/THEN Collection
- FabFems
- Youth Advisory Board
- State Leadership Teams



Enjoy Computer Science Education Week with Microsoft MakeCode







MILLION GIRLS MOONSHOT









National Webinars

- Offered monthly on topics to help our networks grow and thrive
- professionals
- Sign up: <u>https://www.ngcproject.org/events-announcements</u>







Enjoy Computer Science Education Week with Microsoft MakeCode

Speakers include educators, researchers, authors, and diverse STEM

"I really like all the resources placed in the chat that I can go and flip through to find what is most helpful to my organization"



NGCP News letter

- National in-person and online events
- STEM resources for engaging girls and youth, professional development opportunities for educators, and opportunities for youth
- Research and reports related to STEM and equity, informal STEM education and learning
- NGCP updates and events, including webinars, knowledge products, and tools





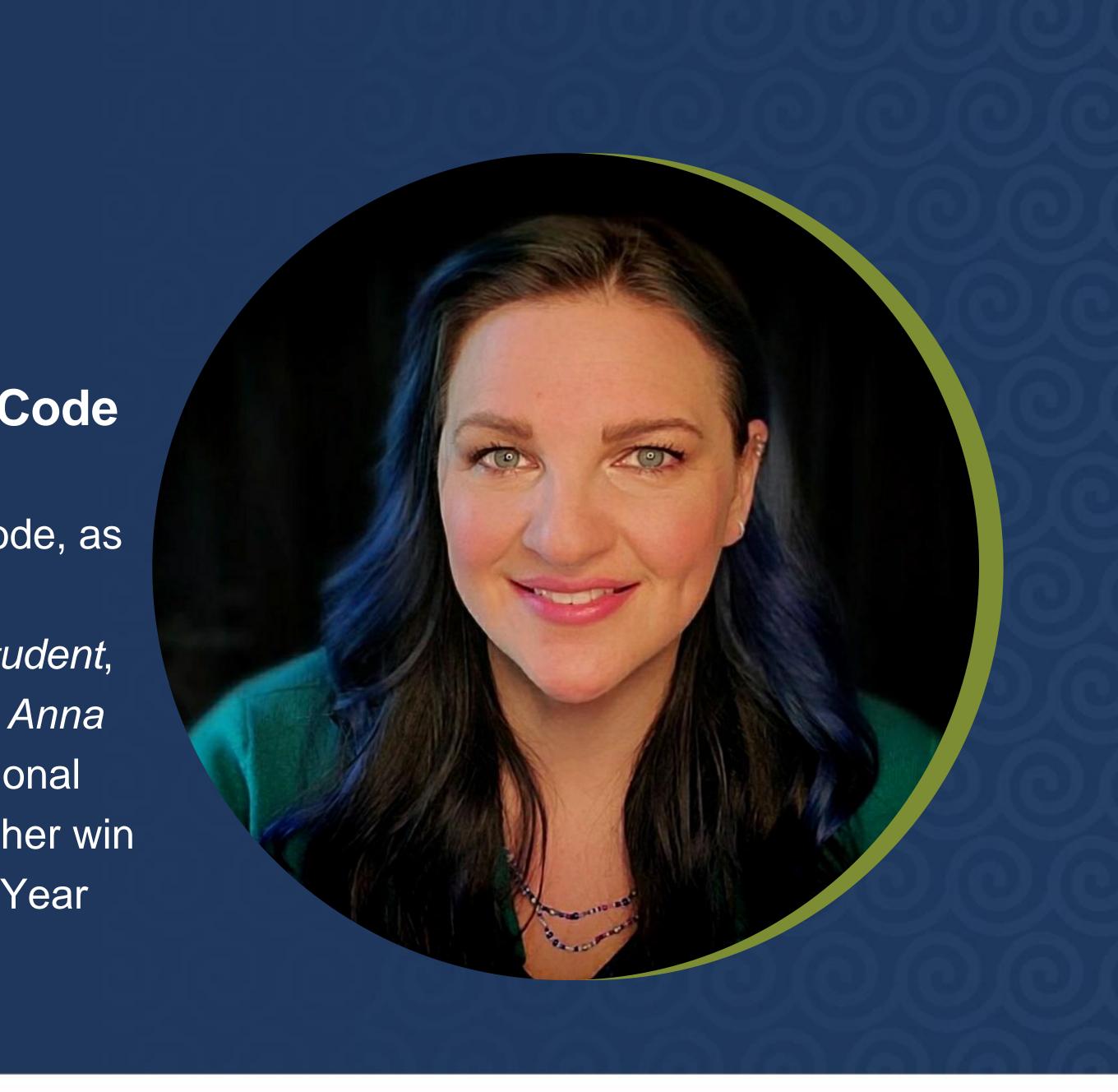




Kiki Prottsman Director of Education, Microsoft MakeCode

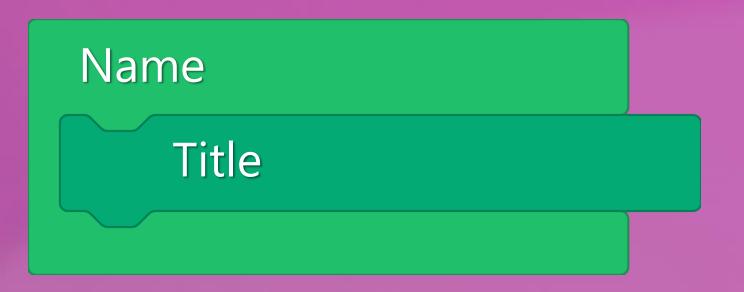
Kiki is Director of Education at Microsoft MakeCode, as well as the author of several books, including *Computational Thinking and Coding for Every Student*, *My First Coding Book*, and *Disney's Coding with Anna and Elsa*. In her spare time, Kiki runs an educational YouTube channel called KIKIvsIT, which helped her win one of Stevie's coveted Female Innovator of the Year Awards.







Microsoft MakeCode Making Computer Science fun



let date = new (Date) // "Insert date here"

🗸 fun friendly relevant physical game-based real

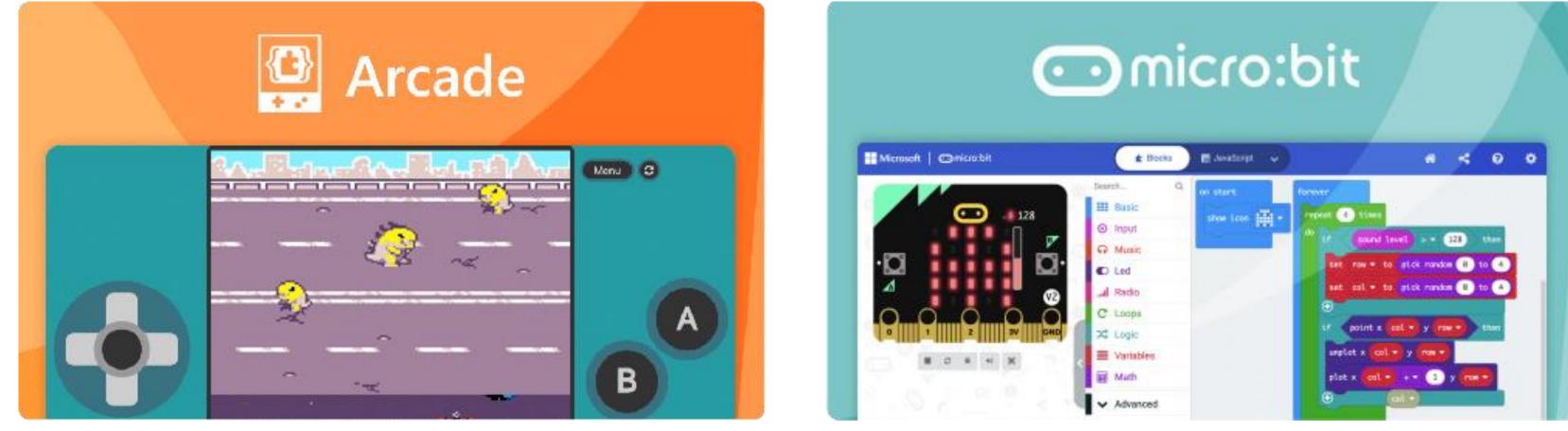






Make & Code

Microsoft MakeCode is a free online learn-to-code platform where anyone can build games, code devices, and mod Minecraft!



MakeCode Arcade

makecode.com



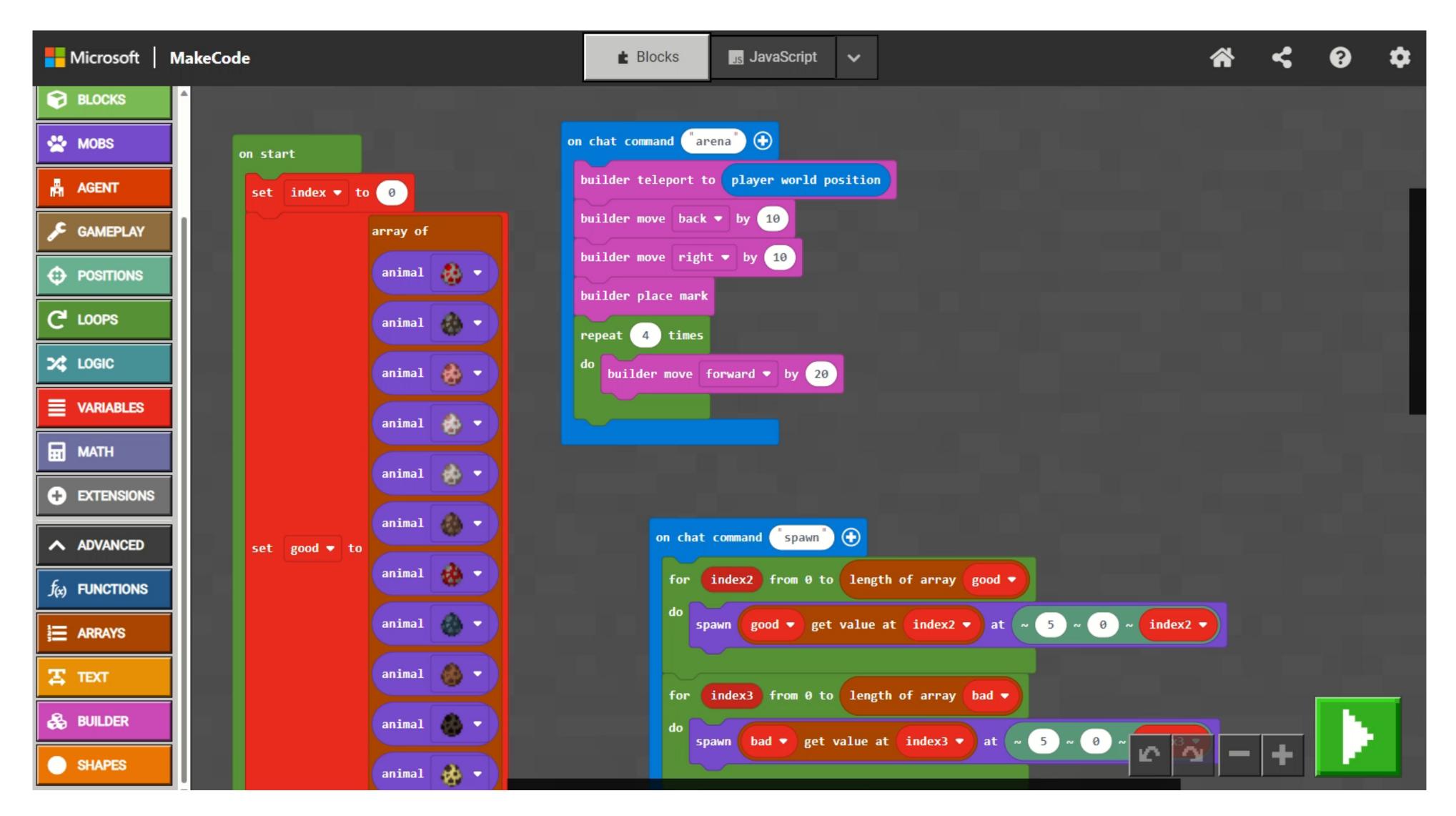


MakeCode for the micro:bit

MakeCode in **Minecraft: Education Edition**



Blocks ←→ JavaScript/Python Supporting learners at different levels



Just works

- Free
- Online, no install
- Cross-platform
- Open source, extensible
- Online / Offline
- Secure & Protected





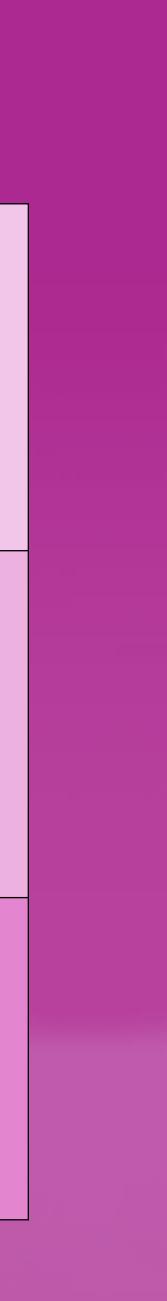
Curriculum

Elementary School (ages 6-10 years)

Middle School (ages 11-14)

High School (ages 15-18)

- Getting Started with the micro:bit
- Teaching micro:bit at the primary level
- <u>Minecraft Hour of Code</u>
- <u>MakeCode Arcade Hour of Code</u>
- Intro to CS with micro:bit
- <u>Science Experiments with micro:bit</u>
- Coding with Minecraft
- <u>MakeCode Arcade Skillmaps</u>
- TEALS Intro to CS with MakeCode Arcade
- <u>AP CS Principles with MakeCode Arcade</u>





MakeCode Arcade



Game Development for everyone

- Simple
- Easy on-ramp with Skillmaps
- Creative, Personal
- Hardware devices
- Career path



CSEd Week 2022

- Step-by-step instructions and explanations
- Pixel image editor
- Game window for immediate feedback





Hour of Code 2022

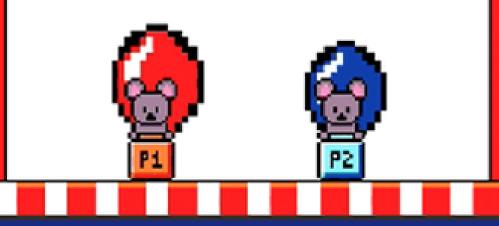
Code fun *multiplayer* carnival games in less than an hour! Pick a game and step right up.

hack-the-Mole

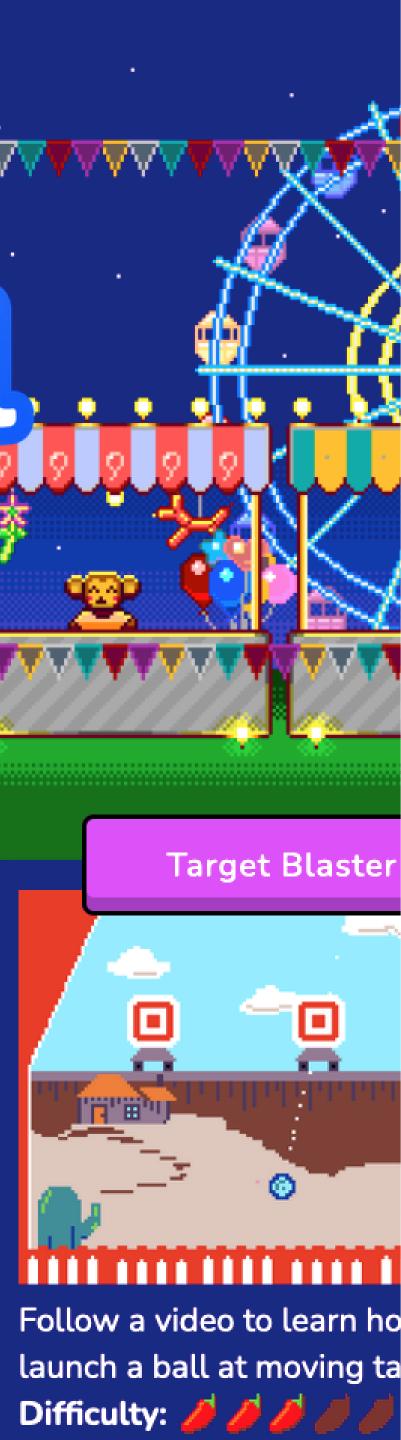
ame where you holes



^ Reach the line! ^



Code a mouse that fills your balloon as quickly as possible **Difficulty:**







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We'll take questions from the chat and from people using the 'hand raise' function.

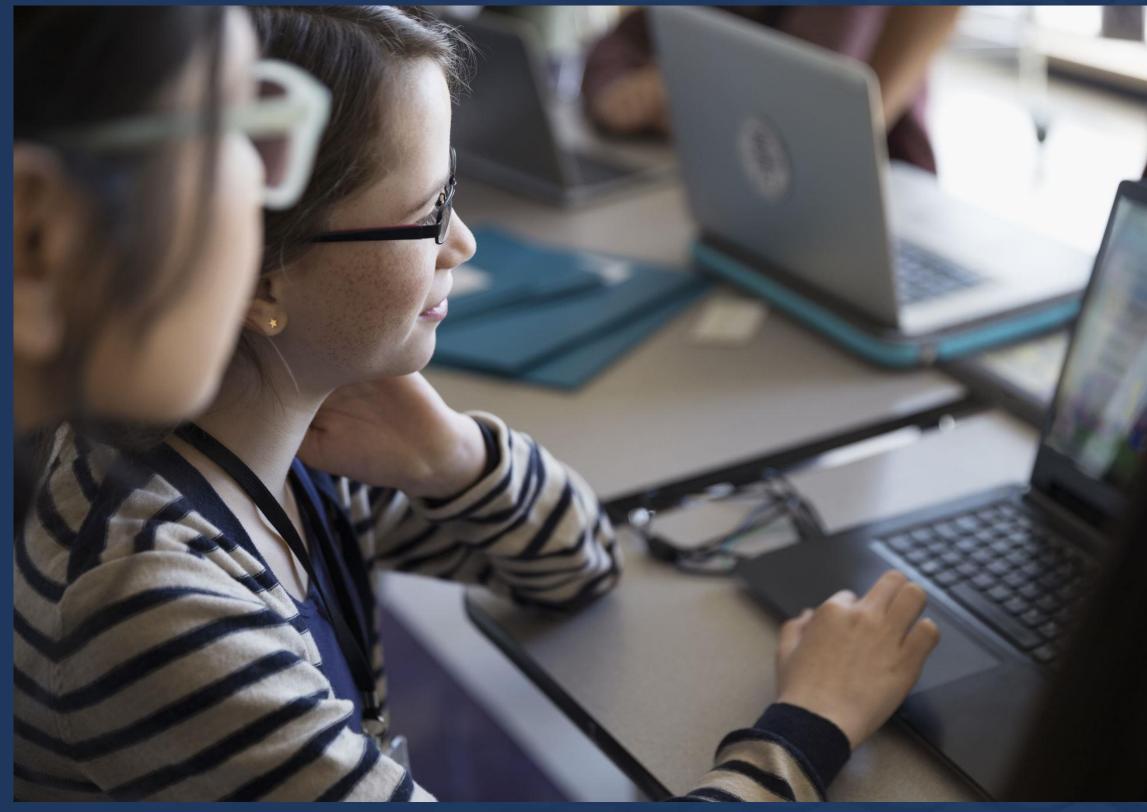


Call to Action

In the chat...

- Share one activity you will try during Computer Science
 Education Week
- Share one resource you will explore after this webinar
- Share something you will do beyond Computer Science Education Week







Last NGCP Event of 2022 **NGCP Holiday Sweater Networking**

Tuesday December 13th, 2022 at 10am Pacific / 1pm Eastern

Sign Up: https://ngcproject.org/events- announcements







20 YEARS OF TRANSFORMING STEM

Learn more at ngcproject.org



Enjoy Computer Science Education Week with Microsoft MakeCode



Webinar Questions? Contact: asullivan@ngcproject.org

