### October 20, 2021



### Welcome to iRobot Education!

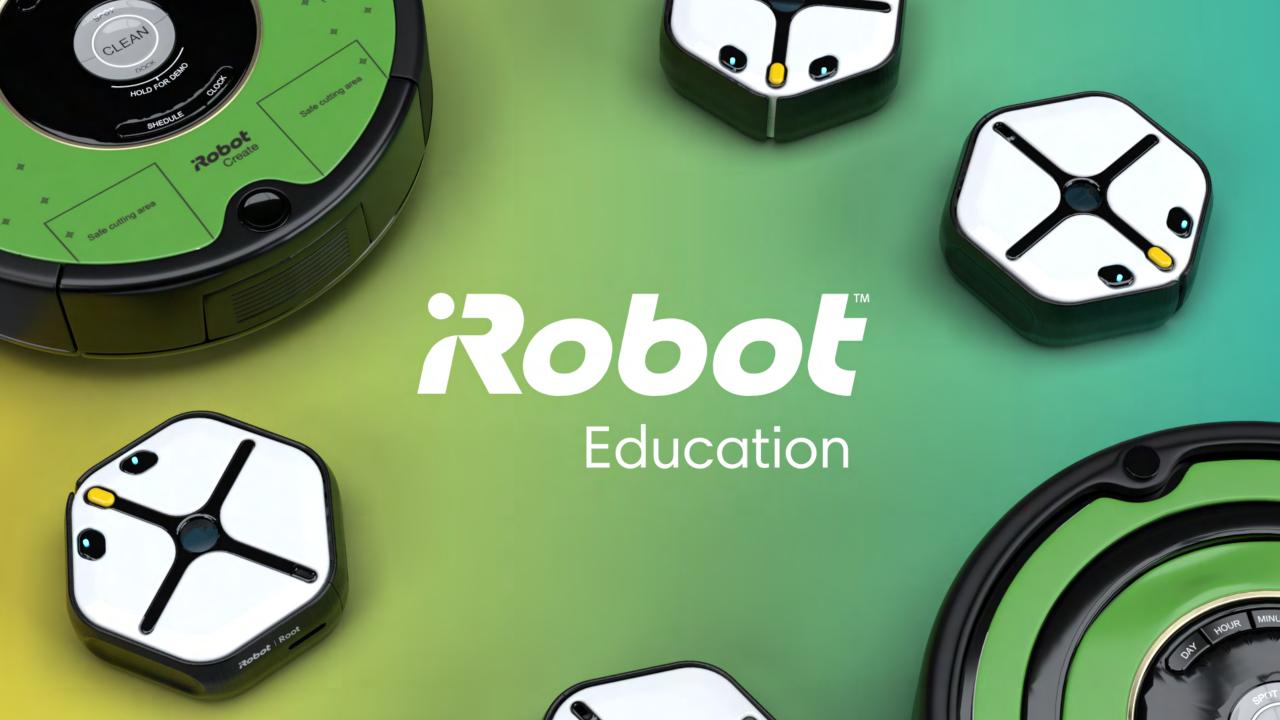


### Webinar Objectives

What are we going to do in the next 40 minutes?

- iRobot Education Learning Suite
- **Learning Library Tour**
- Family Engagement
- STEM Outreach
- Recommended Next Steps
- Questions?



















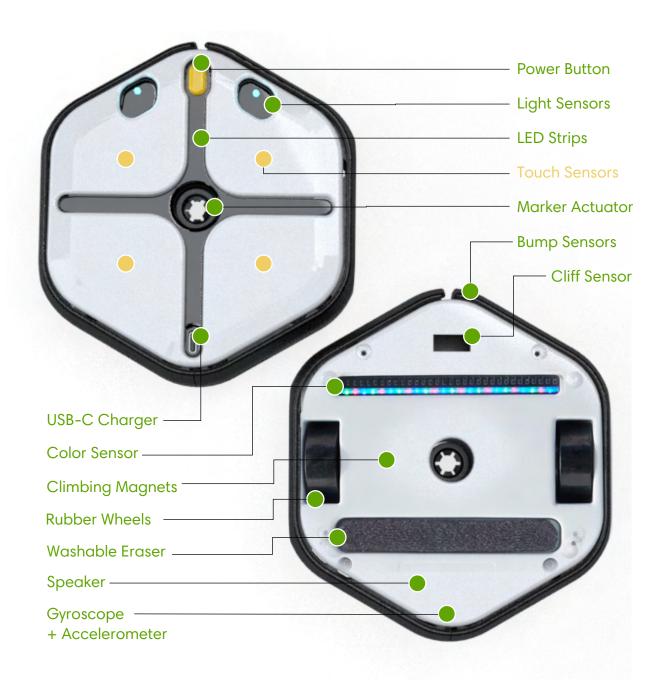
## Root® rt1 Coding Robot

\$199.99

The Root® rt1 coding robot uses tangible, hands-on experiences to teach coding and strengthen computational thinking skills.







## Root® rt1 Coding Robot

Tech Specs

What age(s) is the Root® coding robot designed for? The Root® Coding Robot is designed for pre-readers as young as age 6. For any child under the age of 6, adult help is recommended.

### What operating systems is the Root® coding robot compatible with?

The Root® Coding Robot is compatible with devices running most major, up-to-date operating systems, including Android, Chrome OS, Windows, iOS, and macOS. Users may access the iRobot® Coding platform at code.irobot.com or through the iOS Root Coding app.















## Root® rt0 Coding Robot

\$129.99

With over 20 reactive sensors and features, this smart robot appeals to children and families of all interests.







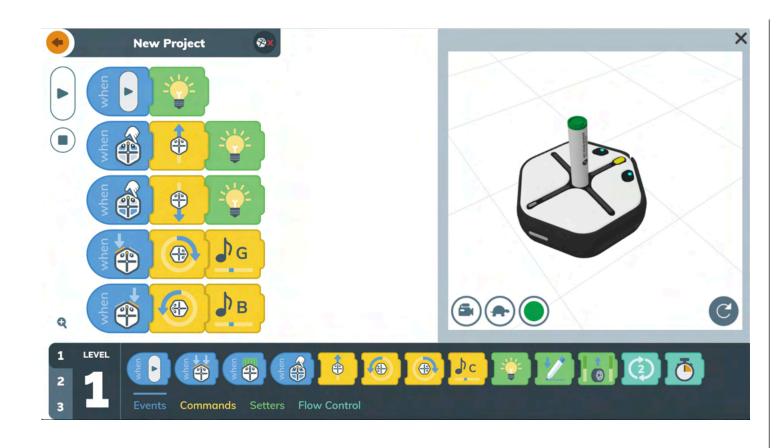
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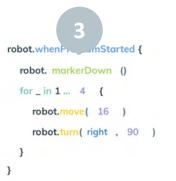
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### iRobot® Coding

#### Free



Compatible with iOS, Chrome OS, Android OS and web-accessible browsers

### **Level 1: Graphical**

Level 1 uses drag-and-drop, graphical blocks to teach the fundamental logic skills of coding, no reading required.

### Level 2: Hybrid

Level 2 builds computational fluency with hybrid blocks that feature a mixture of graphics and coding script.

#### Level 3: Full-Text

Level 3 uses full-text code to teach the structure and syntax of professional coding languages in Python.



#### **Getting Started with Root®**

Use these resources to get started with the Root

O Coding, Robotics, Science



#### **Getting Started with** iRobot® Coding

Welcome to iRobot® Coding! Explore these resources to start coding in the 3D simulator, connect your robot, and manage coding

Ocding, Robotics, Science



Grades 1-3 Grades 3-5

#### **Coding Communication** Challenge

In this coding challenge, students will practice collaboration and communication skills in order to conquer a robot obstacle course while maintaining a safe distance.

O Coding, Robotics, Social Emotional Learning



#### **Robot Writing Challenge**

In this coding challenge, students will alternate between coding with the iRobot Coding simulator and a physical Root Robot to write the first letter of their name.

Art, Coding, Math



#### Take Note(tation) with Baby Shark

This activity teaches students how to translate sheet music into code and play it through their SimBot or physical robot.

Art, Coding, Music, Robotics, Science



Grades 1-3 Grades 3-5

#### **Pirate Costume for Root**

Use this printable to transform your Root Robot into a pirate. Arrrrr!

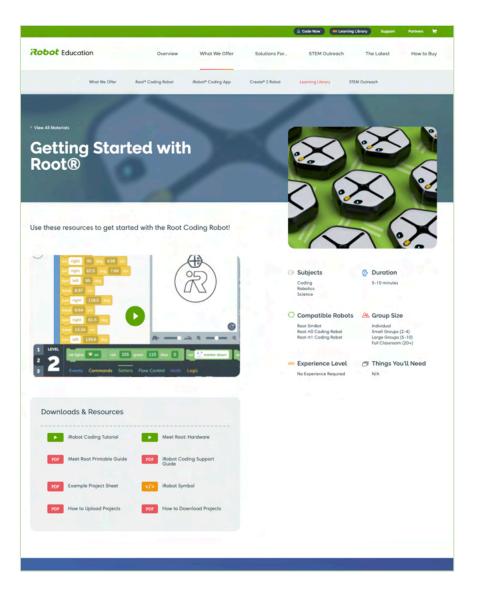
### **Robot** Education **Learning Library**

### Free + Premium Subscriptions

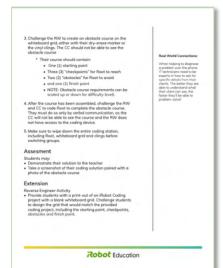
The coding adventure never ends with Root® Adventure Packs! Experience custom-curated content and unlimited learning opportunities across the world!











## Robot Education Learning Library

Subjects:

Art

Coding

Dance

ELA

Engineering

Math

Music

Science

SEL

Social Studies 3D Printing

Ages:

No Exp. Req.

PreK-K

Grades 1-3

Grades 4-5

Grades 6-8 Advanced

Intermediate

Types:

Lessons

Projects Games

Puzzles

### Robot Feelings: The Kind Playground

Making good decisions with code

In this coding challenge, Root drives around the playground and encounters different situations. Can Root make four good choices in a row? If Root makes a bad choice, start back at the beginning!

- SEL + Robotics = Magic!
- Celebrate decision making through storytelling
- This format opens the door for MANY different levels of engagement from creating unique stories and discussing the impact of actions



Grades 1-5

Compatible Bots

Root rt0 Coding Robot
Root rt1 Coding Robot

Materials

iRobot Coding App

Subjects

Coding Robotics Social Emotional Learning Duration
30-60 minutes

Group Size
Individual
Small Groups (2-4)

### Whiteboard Comic Book

Let students work together to showcase their creativity in a comic book format! This lesson reinforces the importance of sequencing through storytelling and coding. Appropriate for beginner or intermediate coders, students will navigate and animate each frame of their comic with Root.

- Transform your whiteboard into a stage!
- Using drawing as a storytelling medium
- Combine sequence of story with sequence of code
- Incorporate robot choreography into the storytelling experience
- Large space = natural teamwork/ collaboration required



#### 

Grades 1-5

**Compatible Bots** 

#### Subjects

Coding English Language Arts **Robotics** Science

Root rt0 Coding Robot Root rt1 Coding Robot

### Duration

30-60 minutes

#### Materials

iRobot Coding App Magnetic Whiteboard **Dry-Erase Markers** 

### A Group Size

Small Groups (2-4)

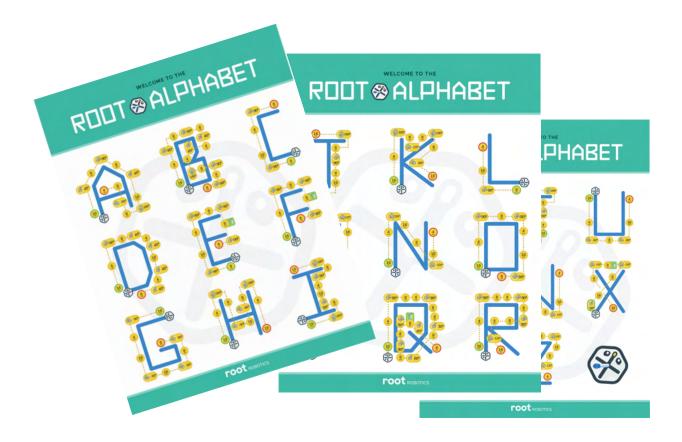


### Robot Typography

### Write with your robot

This activity combines the power of code and robotics with typography. After practicing drawing basic shapes (squares, rectangles, triangles, circles, etc.), students can level up to drawing letterforms in different styles with code.

- Hands-on geometry activity
- Massive opportunity for differentiation:
  - letters vary widely in required skillset
  - Opportunities to write out 1 letter, 2 initials, 1 word or even sentences!
  - Challenge advanced students to create their own typeface for an art component!



### 

Grades 1-9

#### Subjects

Art Coding English Language Arts Robotics

#### Compatible Bots

Root SimBot Root rt0 Coding Robot Root rt1 Coding Robot

#### 🔂 Duration

30-60 minutes

#### Materials

iRobot Coding App Whiteboard Surface Dry-Erase Markers

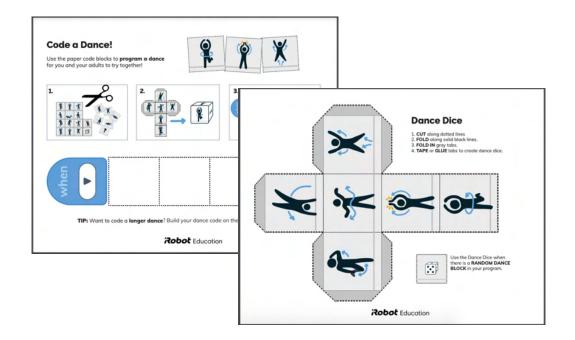
#### A Group Size

Individual Small Groups (2-4) Free Access

### **Dance Moves**

### Learn about code through dance

Use the paper code blocks to program a dance for you and your adults to try together!





Grades 1-5

Compatible Bots
Unplugged

Materials

Game Cards

Space to move!

Subjects

Coding Dance Duration

5-15 minutes

Group Size
Individual
Small Groups (2-4)

### Avoid the Ghosts (Pacman)

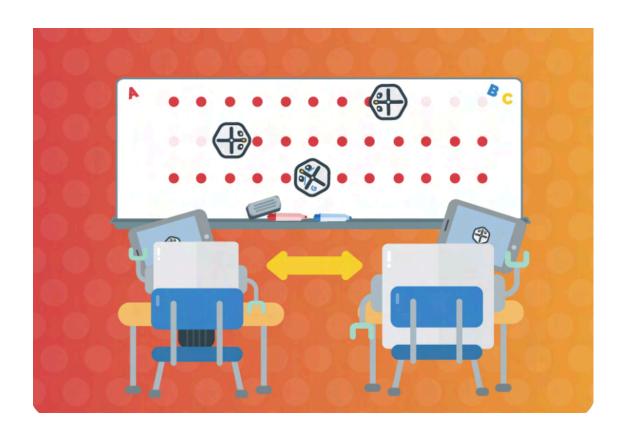
### Code your way to win the game

In this coding challenge, students will work together to clear the board and avoid getting "tagged" by the Ghost Team!





Fun for all ages and experience levels!



Grades 1-9

**Compatible Bots** 

**Subjects** 

Coding Social Emotional Learning Root rt1 Coding Robot

Duration

30-60 minutes

Materials

iRobot Coding App Magnetic Whiteboard Dry-Erase Markers

A Group Size

Small Groups (2-4)



### **Code Break Series**

### Digital escape rooms

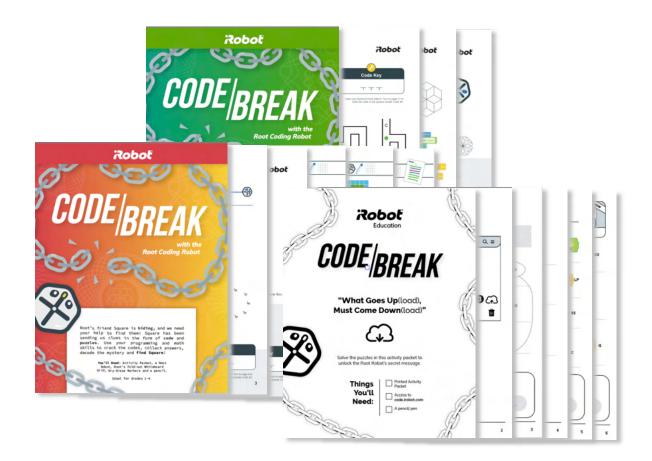
Learn how to create and download coding projects with this activity packet! Solve all puzzles with the Root Coding Robot in the virtual arena or in the physical world to reveal the secret message at the end!





- Printable puzzle packet for students to work through independently or with a team
- Use as a template to create your own puzzle pack Great opportunity for differentiation! Challenge advanced students to create their own puzzles

for classmates to solve.



Grades 3-8

**Subjects** 

Coding **Robotics Puzzles** 

**Compatible Bots** 

Root SimBot Root rt0 Coding Robot Root rt1 Coding Robot

Duration

30-60 minutes

Materials

iRobot Coding App

**Group Size** 

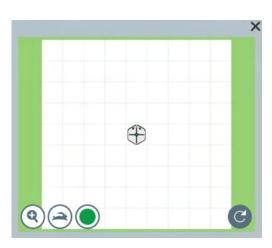
Individual Small Groups (2-4)



### Pizza Challenge

### Family engagement night

Root loves a good slice of 'za! In this differentiated coding challenge, students use the Root Coding Robot's eraser functionality to eat a virtual slice of pizza! Then, draw their own pizza with code!







Great opportunity for community engagement!



### 

Grades 1-9

#### Subjects

Art Coding Robotics

#### Compatible Bots

Root SimBot Root rt0 Coding Robot Root rt1 Coding Robot

#### Duration

30-60 minutes

#### Materials

iRobot Coding App Whiteboard Surface Dry-Erase Markers

### Group Size

Individual Small Groups (2-4) Family Engagement

### Host a Pizza Challenge

FREE Family Engagement Kit

### Host Pack

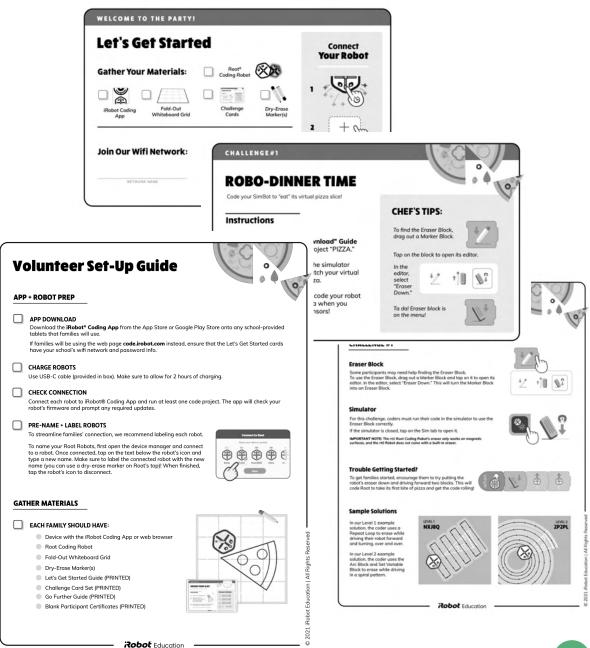
- Facilitator Script
- PowerPoint Presentation
- Promo Materials (Social Media + Email Templates)

### Volunteer Pack

- Set-Up Guide
- Answer Key + Helpful Tips

### Participant Pack

- Getting Started Cards
- Upload/Download Guides
- Challenge Cards
- Going Further Cards







## Root® Adventure Packs

\$49.99

The coding adventure never ends with Root® Adventure Packs! Experience custom-curated content and unlimited learning opportunities across the world!



### Root® Adventure Packs



### Coding at Sea

Ahoy matey! When it comes to learning, there's no such thing as overboard. If you have what it takes to be a pirate, grab this Root Adventure Pack and get ready to sail your Root Coding Robot across uncharted waters. Navigate landmarks, discover mer-Roots and plunder the island for hidden treasure! If you're ready to join the crew, say AYE!



### Coding in Outer Space

Calling all space cadets! If you're over the moon for coding, prepare to have a blast with this Root Adventure Pack. Taking learning to code out of this world, glide through the galaxy with the Root coding robot. From encountering aliens to dodging asteroids, do you have what it takes to become an intergalactic explorer?



### Soccer (Football)

Lace up your cleats! It's time to kick up some coding with this Root Adventure Pack. Meet the Root coding robot on the field to tackle training drills, practice dribbling, and score the winning goal.

May the best coders win!



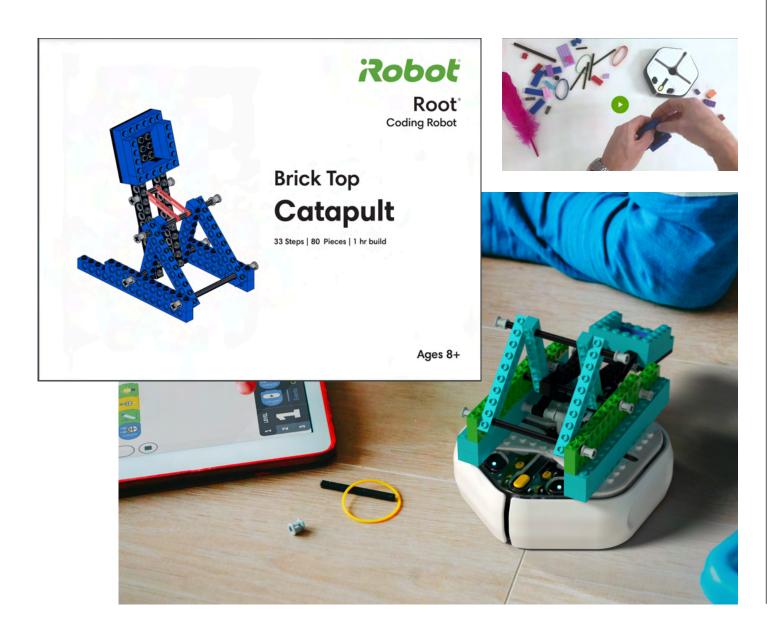


### Root® Brick Top

\$19.99

Kick your imagination up a notch with the Root™ Brick Top accessory, which enables you to build onto Root® coding robots using a variety of common building blocks. Root® Coding Robots sold separately.

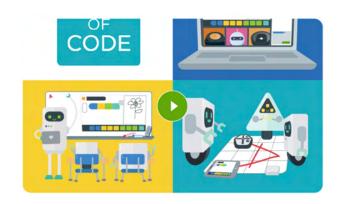




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Virtual Classroom Experience\*



Museum Tour\*



Remote College Panels



**Job Shadows** 

\*Temporarily exclusively virtual

### STEM Outreach Program

FREE to public

Our multi-faceted programs provide inspiration for students and educators spotlighting the variety of opportunities and excitement STEM can provide.





Tailored Team Training

\$1499

### iRobot™ Education

### Professional Development

For millions around the world, robots are both redefining and empowering how people live, learn and work. But, how can you translate this empowerment into your learning institution? How can experiential learning help teach computer science and digital literacy while connecting this learning with other subjects? In what ways can robots be used to enhance student engagement and influence how learning goals are met, or measured? And are you prepared to teach with robots—or maybe even more importantly, how do you know when you are ready?



#### Insider Team

Educators may apply to become an iRobot™ Education Insider team member and receive the opportunity to pilot and provide feedback for the iRobot® Coding platform, our educational robots and corresponding curriculum.

### **Advisor Team**

Current iRobot™ Education
Insiders and alumni can apply to
become members of the Advisor
Team, who are set apart as
innovators with direct
opportunities to develop and
elevate iRobot™ Education's
offerings.



# Robot Education Ambassador Program

### Application-Only

While developing learning resources, iRobot Education looks to educators for invaluable guidance and feedback; in particular, those involved in our ambassador program. These educators are experts in creating, curating and delivering impactful learning experiences, scaffolded to meet the needs of each and every student.



Root® rt1 Intro Pack (2) \$399



Root® rt1 School Pack (12)

\$2199



Root® rt1 Classroom Pack (6) \$1199



Root® rt1 Technology Pack (30) \$5495

### Root® Coding Robot

### Educator Bundles

Designed for educators committed to building a coding and robotics program, the Root® Classroom packs are an ideal solution for sharing robots groups of students and/or classrooms. The educator packs include multiple Root® rt1 Robots, fold-out whiteboard grids, dry erase markers, dry erase cloths, sets of vinyl cling stickers, chargers, a printable Learning Level 1 curriculum guide and a 1-year subscription to premium content for multiple devices.

### Funding Ideas

### BILL & MELINDA GATES foundation





### **Foundations**

Foundations exist as nonprofit organizations or charitable trusts that support various causes. Some foundations might require a Letter of Inquiry (LOI) prior to the application. Similarly, foundations may put out a Request for Proposals (RFP). Local educational foundations (LEFs) exist in various regions and can be another source of support.

### **TOSHIBA**





### **Corporate Giving**

Many corporations are dedicated to the social impact of the communities they serve. These are some examples of the many corporations that support STEM and education initiatives.

### DONORS CHOOSE





### Crowdfunding

There are online platforms dedicated to connecting passionate teachers with passionate donors. Remember to share your initiative page within your own networks to generate interest.







#### Local Initiatives

Consider the resources that already exist at your school and within your community. Many PTA's/PTO's are eager to support innovative classroom projects.





### iRobot Education Resources

Recommended Next Steps for Attendees

- Sign Up for iRobot Education Newsletter: <u>edu.irobot.com/sign-up</u>
  - Stay updated on exciting new content and deals!
- Start Coding with the iRobot Coding App code.irobot.com
  - Download on iOS and Android devices
- Celebrate CS Education Week!
  - December 6-12, 2021: Stay tuned for activities!
- Tag us in your adventures @iRobotEducation
  - We love to hear from educators!



## Thank You!

Join us again soon ©