

Robo Dance Recital

Lights, camera, action! In this coding activity, students will work in small groups to research and choreograph their own musical dance performance with the Root Coding Robot!

Teacher Prep

- Identify dance styles or genres (waltz, hip hop, salsa, jazz, etc.) for students to research and list on Dance Cards (attached)
- Ensure there is a performance space for a showcase (front of a classroom, gym, library, etc.)

With the Class

Research

- Divide students into small groups (3-4 students)
- Let each group select which style of dance to research. Draw cards using the attached Dance Card template for random selection!
- Conduct research on selected dance style including costumes and traditional wear, music, etc.

Planning and Rehearsal

- Students can break into separate roles: Coding Choreographer, Musical DJ, Costume Designer

Coding Choreographer:

- * Think about how to translate the movement of each dance into the movement of the robot
- * Open a new coding project in the iRobot Coding App to begin coding choreography with Move and Turn Blocks

Musical DJ:

- * Code music to accompany the robot choreography with Music Block

Costume Designer:

- * Create robo costume and any additional props necessary for the performance (lights, attachments, obstacles, etc.)

Subject(s):

Coding / Robotics
Dance

Experience Level:

Beginner

Time:

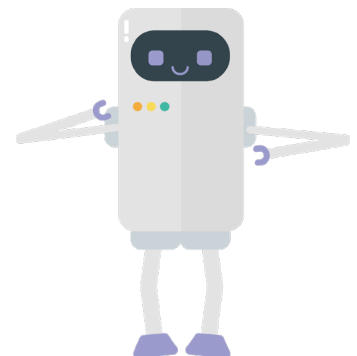
60+ minutes



Group Size:

Small groups (3-4)

Supplies:

iRobot Coding App
Coding Devices
Showcase space
Craft supplies



- Students can work collaboratively on one coding device or coding projects can be shared by uploading to the cloud.
 - * To upload a coding project, tap on the  icon.
 - * Then tap the  icon.
 - * Use the unique project ID to download the coding project.
- Remind students to save their progress with their unique project ID to continue working outside of class time or across multiple class periods.

Showcase

- Allow students ample time to practice and rehearse their choreographed coding routines.
- Celebrate success! Invite other classes to the final performance or host a special Robo Dance Recital for families and community members to attend!
- Make space for peer feedback and reflection. Encourage students to share their experience with others and comment on each group's performance. Some questions might include:
 - * What is something new that you learned?
 - * What was challenging?
 - * How did your team handle obstacles?
 - * What are you most proud of?
 - * What advice do you have for other groups in the future?

Extension

- Students can level up their coding in Level 2 or Level 3. Code more complex dance moves with more code block options!
- Working with multiple robots? Code a partner dance with two robots facing each other and moving in tandem!

Keep Dancing!

Looking for more activities? Test your sequencing skills and dance moves with this [unplugged activity!](#)

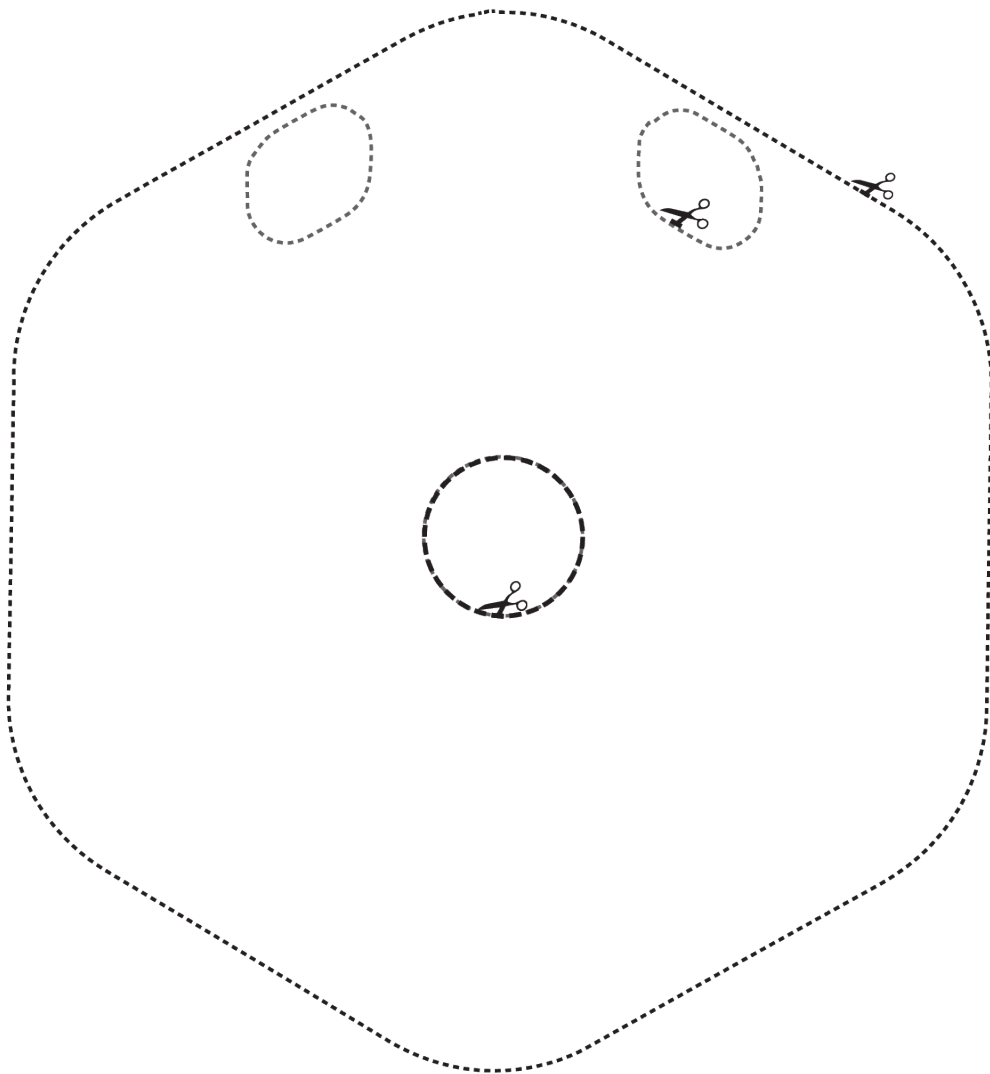
Check out other cross-curricular coding activities in the iRobot Education [Learning Library!](#)

Dance Cards (Blank)

Use these cards to add styles of dance to research. Fill them out, cut, and let students select

Robot Costume Template

Use this outline to design and create a robot costume for your Root to wear.



Tip: You can program the Marker Holder with the Marker Up and Marker Down Blocks to create moving costume pieces!