



Age 9/10

Lesson 1

Dancing and Robotics

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50 min

Goal:

The students will connect music with programming a robot. They will listen to a song and think about which movements the robot can make. Then they will program the robot so that it can perform the movements.

Please note: in this lesson the robot does not have to perform all movements exactly to the music for the entire song.

All lessons focus on the Digital Literacy curriculum and 21st century skills.

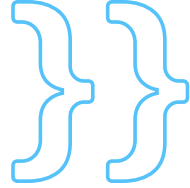
Supplies:

- Laptops/tablets for all students
- Access to playbotix.io
- ✂ Drawing supplies (paper, pencils, markers)
- Worksheets for students

Notes to the teacher:

Guide students in using the portal and encourage creativity in building the app.

Ensure a positive and supportive atmosphere during the class discussion.



Part 1 Classroom: Introducing the song and robot possibilities

10 min

As a teacher, choose one or more songs that the students can use for this assignment. Think of songs that fit this time of year or the topics that you are currently working on in class.

The video teacher indicates that the students are going to listen to a song. The following assignments are given. The students can do these assignments individually or in groups.

1. Listen to the song and think about what movements you can make to it.
2. Can a robot make all the movements that a human can make?
3. What movements can the robot make that fit the song? The robot doesn't have to dance to the whole song.

The video teacher indicates that students have probably come up with fun movements, but that the robot cannot do everything the same as a human. That is why it is good to take into account what a robot can do.

As a teacher, you can have a number of students demonstrate movements and think together about why a robot can or cannot do this.

Part 2 Independent: Robotics and Dance

30 min

The students continue independently with the worksheet

They follow the steps on the worksheet to log in and create an app.

When they have completed the assignment, they can share it with the teacher.

As a finished assignment, the students let the robot tell where it likes to dance and then let the robot dance. They can also tell why dancing is so much fun.



Reflection

 10 min

Class discussion about how robots dance. This will show what they have learned about the use of robots and the movements that the robot can make.

Reflection questions:

- Ask students what differences there are between human and robot dancing.
- What movements can the robot not do? Are there movements that the students would like to teach the robot?
- Discuss with students what they learned in this lesson.
- Do the students want to go to a dance party with a robot?

The students complete the reflection on the worksheet.