



Age 8/9

Lesson 2

Emotions and Robotics*

Age 8/9

Lesson 2

Emotions and Robotics

50 min





Lesson Objectives:

Students will learn about different emotions. They will discover the difference in expressing emotions by humans and robots.

Robots have only programmed emotions. Students will learn to program the robot to display emotions.

Note: Every lesson pays attention to the digital literacy learning line and 21st-century skills.

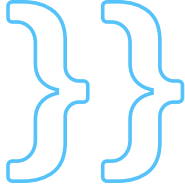
Materials Needed:

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

Copyright © 2024 Playbotix

Notes for 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: Class Discussion – Discovering Emotions 🕒 10 min

Students will answer the following questions on paper individually or in groups. Once the students are done, the answers can be discussed in class.

- 1 **What emotions do you know?**
- 2 **How do you show how you feel?**
- 3 **How does a robot show its emotions?**

The video teacher will list various emotions and explain how an emotion, like happiness, can be expressed. The video teacher will also explain that a robot cannot move its face and thus must express emotions differently.

Create a list on the board and add to it:

- Happy
- Angy
- Sad
- Proud
- ...

It is important for students to understand that robots do not have real emotions but can pretend to have them.

Part 2: Independent Work – Robotics and Emotions 🕒 30 min

Students will work independently with the worksheet

They will follow the steps on the worksheet to log in and create an app. Students will have the robot explain how it feels and why, accompanied by an appropriate gesture. For example, the robot says: "I always feel happy when I play with my friends." As a gesture, it looks happily upwards. Students learn which gestures match which emotions and become more aware of gestures. They also learn that robots do not have emotions and that everything robots do is programmed by humans.

As an extension activity, students can come up with their own emotions and the gestures that match those emotions.



Reflection 🕒 10 min

Class discussion about the robot and emotions. This will highlight what they have learned about emotions and robots:

Reflection Questions:

- Which emotions did the students enjoy teaching the robot?
- Direct the conversation to whether a robot can really feel. Discuss that robots can show emotions, but they do not actually feel them like humans do.
- Explain why robots sometimes display emotions. For example, in healthcare, to appear friendlier or to communicate better with people.
- Do students think robots always do what humans say? Why or why not?
- What did you learn today about emotions and robots?
- Discuss in class what the children have learned.

Students fill out the reflection on the worksheet.