



Lesson #1: What is a Robot.

Overview

Identify the criteria that makes an item a robot.

Lesson Summary

- Discussion and Responses
- Kismet and “The Intelligent Robot Video
- Video Discussion and Responses
- “What is a Robot?” handout
- Collaboration Activity
 1. Online discussion
 - What do you think of when you hear the word “robot?”
 - Be sure to respond to at least two posts from your peers.
 2. Kismet and “The Intelligent Robot Video.”
 - Watch the video as a class.
 - Students must identify at least three different examples of robots shown by the two videos
 3. Online Discussion
 - What are the common features of the robots you have identified? What do all those robots have in common? What tasks are easy for robots? What tasks are hard for robots?
 - Be sure to respond to at least two posts from your peers.
 4. Whole class reading of “What is a Robot?” handout.
 5. Collaboration Activity
 - “Am I a Robot?” – Model how to complete the worksheet for “Basic Stove.” Students complete “New Microwave” with a check for understanding.
 - Students work together to complete the “Are we Robots” Activity.

CS Content

Basic understanding of the qualities of a robot. Establishment of criteria used for determining if an object is a robot. Information established the foundation for the remainder of the unit.

Objectives

Students will be able to:

- List and explain the criteria that describes a robot.
- Determine if something is a robot, using the criteria.

Materials and Prep

- Online Discussion Forum
- “What is a Robot?” handout.
- “Am I a Robot? Activity” and “Are we Robots?” handouts.
- Kismet Video and “The Intelligent Robot Video “
- Computer and Projector.

Resources

Student Documents

- Responses to online discussion forum.
- Video notes.
- Completion of handouts.

Video

- <http://www.pbslearningmedia.org/resource/vtl07.la.ws.research.intelrobot/the-intelligent-robot/>
- <http://www.pbslearningmedia.org/resource/eng06.sci.engin.design.kismet/kismet-the-social-robot/>

Assessments

- Discussion posts
- Completing of video notes.
- CFU after “Am I a Robot – New Microwave.”
- Visual CFU during collaboration activity