## Grade 2, Lesson 12 of 24

Lesson IZ: What's That Sound?

# Coding as Another Language - KIBO

### (CAL-KIBO)

DEV TECH RESEARCH GROUP

**Vocabulary:** 

Lesson 12 Overview: In Lesson 12, children will learn about the Sound Sensor, Sound Recorder, and Wait for Clap Block and write a program using this block and the two modules.

Powerful Ideas from Computer Science: Control Structures, Hardware/Software, Representation,

Debugging Powerful Ideas from Literacy: Literary Devices

#### I. Warm Up: What Do We Hear?

- Play sounds from the Listening Game slidedeck and have children guess the sounds!
- Engage children in a conversation around which sounds were harder or easier to guess than others.

#### II. Opening Tech Circle: Human Senses and Robot Sensors

• Explain to children that just like humans have different senses to take in information about the world around us, robots have sensors to do the same.

### III. KIBO Time: Sound Sensor and Wait for Clap, Sound Recorder, & Free Play

- Show children the Wait for Clap Block, and the Sound Sensor. Create an example program together. Run the program and have children discuss what the robot is doing.
- Then, show children the KIBO Sound Recorder module. Demonstrate with a model program how they can make three different recordings by pressing and holding down on the three shape buttons on the module: the circle, square, and triangle.
- In groups, children will explore the Sound Sensor and Recorder. Additionally, children should understand that when KIBO reads the Wait for Clap, it knows to only keep going when it hears a noise. Children should also understand the similarities and differences between the Sound Sensor and humans' ears.

### IV. Closing Tech Circle: Roses & Buds

• Each child shares one "rose" (thing that they learned) and one "bud" (thing they want to know more about and are excited about learning).

Senses
Sensor
Record
Input
Output
KIBO Blocks:
Wait for Clap Block

KIBO Modules: Sound Sensor Sound Recorder