

**Lesson 9:
Making Noise**

Lesson 9 Overview: In Lesson 9, children are introduced to the Beep Block and the Sing Block and engage in free play using these blocks.

Powerful Ideas from Computer Science: Representation, Hardware/Software, Algorithms
Powerful Ideas from Literacy: Tools of Communication and Language

I. Warm Up: Charades

- Play a game of charades using emotions as prompts

II. Opening Tech Circle: Tools of Communication

- Discuss different ways people can communicate these emotions.
- Do all people express these emotions the same?

III. KIBO Time: Adding Noise & Free Play

- Explain that KIBO can't express itself, but we can program KIBO to make noise.
- Introduce children to the Beep Block and the Sing Block. Ask children what they notice about the blocks and how they are similar to or different from other blocks they have used.
- Scan a sample program to show what the block does. Re-scan the program, scanning the Beep Block multiple times to show that the number of times KIBO beeps corresponds to how many times you scanned the Beep Block. Repeat with the Sing Block.
- Have children engage in free play with KIBO. Make sure children can identify the beginning, middle, and end of their programs. Children should feel comfortable assembling a complete KIBO program with at least 5-6 blocks, including the Beep Block and/or Sing Block.

IV. Closing Tech Circle: Kindness Challenge

- Select one of the values you discussed as a class in Lesson 6, like kindness, Display the Kindness Challenge Anchor Chart. Explain to children that they're going to be a part of a Kindness Challenge! During the week, they will choose one kind thing to do from the chart. Feel free to modify the specific value.

KIBO Blocks:

Beep Block

Sing Block