

**Lesson 10:
New Noises**

Lesson 10 Overview: In Lesson 10, children are introduced to and explore the Beep Block and Sing Block.

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

I. Warm Up: Our Emotions

- Share pictures of different feeling faces (smiling, crying, angry) and ask children what the faces are telling us. Discuss with children how they know when their friends are happy, sad, or angry.

II. Opening Tech Circle: Tools of Communication

- Display the Anchor Chart for Tools of Communication and talk about all the ways we can communicate feelings (e.g., words, voices, faces, etc.).

III. Unplugged Time: Express Yourself

- Play a game of charades using emotions as the prompts.

IV. KIBO Time: Adding Noise & Free Play

- Explain that although KIBO can't express itself, it can make sounds when it is programmed to.
- Introduce children to the Beep Block and Sing Block. Ask children what they notice about the block and how they are similar to or different from other blocks they have used.
- Scan a sample program to show what the block does.
- 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 4-5 blocks, including the Beep or Sing Block.

V. Closing Tech Circle: Sharing Circle

- Have children share their programs made during free play. Have one child from each pair read their full program aloud.

KIBO Block:

Beep

Sing