

Lesson 2:
KIBO Parts

Lesson 2 Overview: Lesson 2 introduces children to the parts of the KIBO robot, how to assemble KIBO, and classroom expectations when using KIBO.

Powerful Ideas from Computer Science: Hardware/Software
Powerful Ideas from Literacy: Tools of Communication and Language, Alphabet and Letter-Sound Correspondence, Phonological Awareness

I. Warm Up: Robot Parts Song

- Introduce the *Robot Parts Song* to children.

II. Opening Tech Circle: Our Bodies and KIBO's Body

- Have children reflect on the similarities and differences between their bodies and KIBO's robot body.

III. KIBO Time: Meet KIBO & Exploring KIBO

- Go over KIBO's key parts and their functions (e.g., body, wheels, motor).
- Weave in key ideas around programming and programming languages (e.g., children will act as engineers when they give KIBO a program. The program they give KIBO is KIBO's language).
- Have children practice assembling and disassembling the KIBO wheels and motor.
- Review class norms around safely and appropriately using KIBO.

IV. Word Time: Kind and Safe with KIBO

- Discuss class norms about being kind and safe to each other and to KIBO using the KIBO Kind and Safe Anchor Chart. Take time to review your standard classroom procedures around kindness and safety.

V. Closing Tech Circle: Cleaning Up KIBO

- Sing the *KIBO Clean-up Song* with children.

Vocabulary:

Hardware

Main board

Motor