

## Coding as Another Language - KIBO (CAL-KIBO)



## 2nd Grade Curriculum Roadmap

Children learn about what a robot is (and is not), explore human languages and programming languages, learn about algorithms, and begin to explore KIBO and it's programming blocks.

Children decorate their KIBO projects, explore debugging, learn about the Lightbulb and Light Block, and explore the Wait for Clap Block and Sound Sensor.

Re-Read Classified in Lesson 9.

Children learn about nested loops and statements and finish their "Silly Rules Race" program. Children also begin to work on their final project, a KIBO play of *The Three Little Pigs*.

**Read Aloud** The Three Little Pigs in Lesson 19.

Lessons 1-4

Lessons 9-12

**Lessons 17-20** 



Lessons 5-8

Children learn about the Design Process, write their first programs, and explore the Beep and Sing Blocks.

**Read Aloud** Classified: The Secret Career of Mary Golda Ross, Cherokee Aerospace Engineer in Lesson 6.

## **Lessons 13-16**

Children are introduced to the Light Sensor,
Distance Sensor, repeat loops, and
conditionals. Children also program KIBO to
be part of a "Silly Rules Race."

## Lessons 21-24

Children complete their final *Three*Little Pigs projects. As they share in
a final showcase, they discuss
collaborations and contributions.

**Key Activity - Lesson 9: Decorating Our Spacecrafts** 

Based on the book *Classified*, children program a secret space mission using KIBO.

Key Activity - Lesson 15: Silly Rules Race!

Children program KIBO to be part of a "Silly Rules Race."

Key Activity - Lesson 22: Your Final Project III

Children complete their KIBO plays of *The Three Little Pigs*.