

ELEMENTARY SCHOOL PRODUCT GUIDE

EDUCATIONAL ACTIVITIES

Bee-Bot; littleBits; Makey Makey; Ozobot; STEM Labs; Snap Circuits; and Squishy Circuits are included in every standard Ripken Foundation STEM Center Toolkit and can be customized for the needs of the individual program site.



BEE-BOT (FROM TERRAPIN)

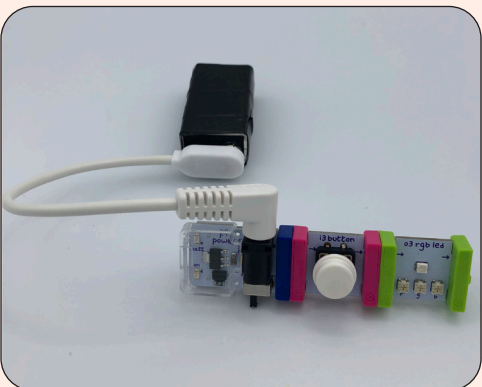
Programmable robot that uses buttons and simple commands.

Items each school receives:

- 6 Bee-Bot robots
- 1 Community mat
- 1 Card mat
- 1 Docking/Charging station

Storage:

Does not come in its own container, but they can be stored on the docking station.



LITTLEBITS

Electronic “building blocks” that combine to make circuits and accomplish different tasks.

Items each school receives:

- 8 STEAM Class Packs
- littleBits and accessories
- Educator’s Guide
- Introduction and littleBits Basics Guide
- Invention Guidebook tied to the Next Generation Science Standards (NGSS) and Common Core Standards
- Online resources

Storage:

Each set comes in a box that can be used for storage.



MAKEY MAKEY (FROM JOYLABZ)

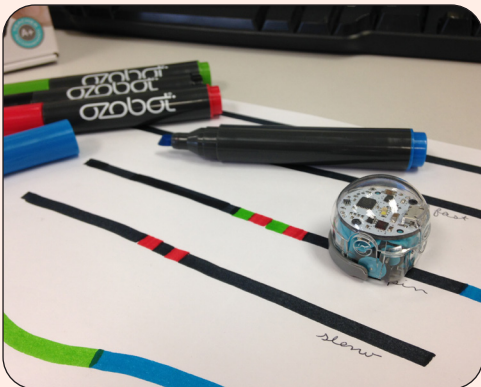
Programmable computer chip that connects coding and practical applications.

Items each school receives:

- 1 STEM Class Pack (which includes 12 Makey Makey chips along with wires and clips)
 - Connecting wires
 - Graphite pencils optimized for use with Makey Makey
 - Organizing carrying case
 - Basic instruction guides

Storage:

Comes in one storage case for all items.



OZOBOT (FROM EVOLVE INC.)

Programmable robot that uses markers and simple commands.

Items each school receives:

- 1 Class pack—Ozobot Evo (includes 12 Ozobots)
 - Multi-port chargers
 - Sets of markers
 - Tip sheets
 - Teacher's Guide
 - Online resources

Storage:

Comes in a container that includes accessories and an additional storage container for just the Ozobots.



STEM LABS (FROM KID SPARK EDUCATION)

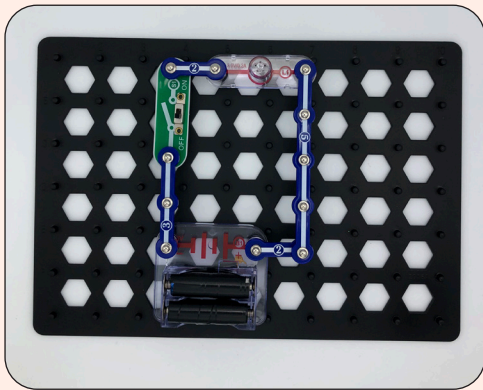
Engineering and robotics materials for students.

Items each school receives:

- 4 Foundational Fluencies STEM Labs (Grades Pre-K-1)
- 4 STEM Pathways Labs (Grades 2-5)
- Online Curriculum and Educator Resources (120+ hrs. of curriculum, Kid Spark professional learning courses and program certifications)

Storage:

Materials come organized in durable containers. Includes an inventory and organization guide to easily locate and manage materials in the lab.



SNAP CIRCUITS (FROM ELENCO)

Pre-fabricated components that work together to create various circuits.

Items each school receives:

- 12 Snap Circuits Jr.® Education 100 Experiments Kits, including:
 - Wire
 - Resistor
 - Speaker
 - Motor
 - LED
 - Switch
 - Snap Circuits platform board
- Project Instruction Guide
- Student Guide
- Teacher Guide

Storage:

Each kit comes in a storage case.



SQUISHY CIRCUITS

Teaches circuitry using conductive and insulating doughs.

Items each school receives:

- 1 Group Kit (includes enough components for a class), including:
 - Battery holder
 - LEDs (various colors)
- 2 Dough kits

Storage:

Comes in a storage kit for the electrical components, the dough is stored in separate containers.

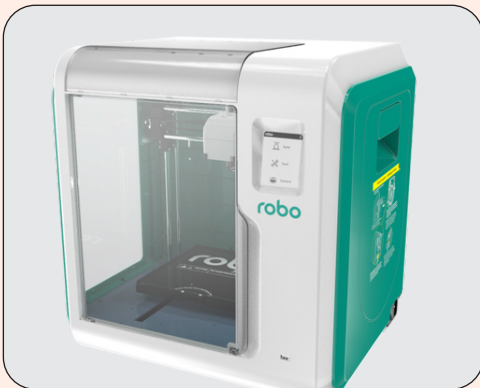
EQUIPMENT

The electronic equipment, furniture, and materials listed below are included in every standard Ripken Foundation STEM Center and can be customized for the needs of the individual program site.

3D PRINTER

Items each school receives:

- 1 Robo3D E3 Printer



COMPUTERS

Items each school receives:

- 6 Chromebooks



ADDITIONAL MATERIALS FOR EACH SCHOOL

These materials support the overall STEM program and are not tied directly to one kit.

- 2 Surge protectors
- Supply of AA Batteries

TABLES

Items each school receives:

- 7 Clover Tables (seats 4)



SEATING

Items each school receives:

- 28 Stackable Chairs (16" Height)



WORKBENCH

Items each school receives:

- 1 Mobile Workbench – *Exact model will depend on availability.*

