

STEM Pathways Lab

The STEM Pathways Lab supports Kid Spark’s Elementary (grades 2-5) and Middle School (grades 6-8) programs and covers a broad range of technologies and curriculum. Students get hands-on as they explore concepts in structural & mechanical engineering, applied mathematics, rapid prototyping & 3D printing, and coding & robotics.

This lab is designed to accommodate students working collaboratively in teams of 2 - 4 students. As students progress through the supporting curriculum units, they will gain confidence in their ability to use technology to solve problems and create new solutions.






Resources for this lab include access to Kid Spark’s online curriculum library which includes unit overviews, teacher lesson plans, curriculum packets, student workbooks, video tutorials, unit assessments, and a 3D virtual parts library. Educators also have access to Kid Spark’s online Learning Management System which includes professional learning content and program certifications.

Brand	Kid Spark Education
SKU	35061
Product Name	STEM Pathways Lab
Students per Lab	2 - 4
Hours of Curriculum	120+
Curriculum	Included
Lab Dimensions	23.25" x 18" x 4.5"
Shipping Dimensions	23.5" x 18.25" x 4.5"
Shipping Weight	15 lbs.









Curriculum Units Supported:

GRADES 2 - 5

 Kid Spark Basics	 Applied Mathematics	 Exploring Sensors
 Mechanisms & Movement	 Robotics & Coding 101	

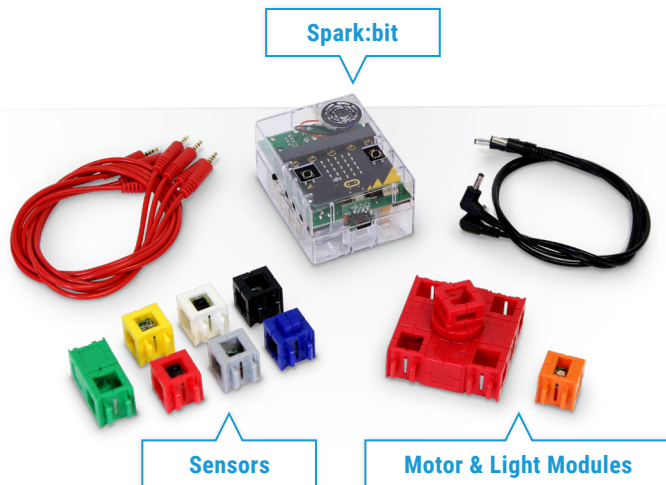
GRADES 6 - 8

 Kid Spark Basics	 Compound Machines	 Loops & Variables
 Simple Machines	 Rapid Prototyping & 3D Printing	 Integrated Engineering Challenges

Teaching Computer Science?

Meet Spark:bit

At the heart of the STEM Pathways Lab is Spark:bit, a Micro:bit-based robotics controller that can be combined with sensors, motors, and other Kid Spark engineering materials to create interactive, robotics systems. Students with little to no coding experience start with simple drag and drop coding and can transition to text-based coding when they are ready.



Supported by Microsoft's Makecode programming environment.



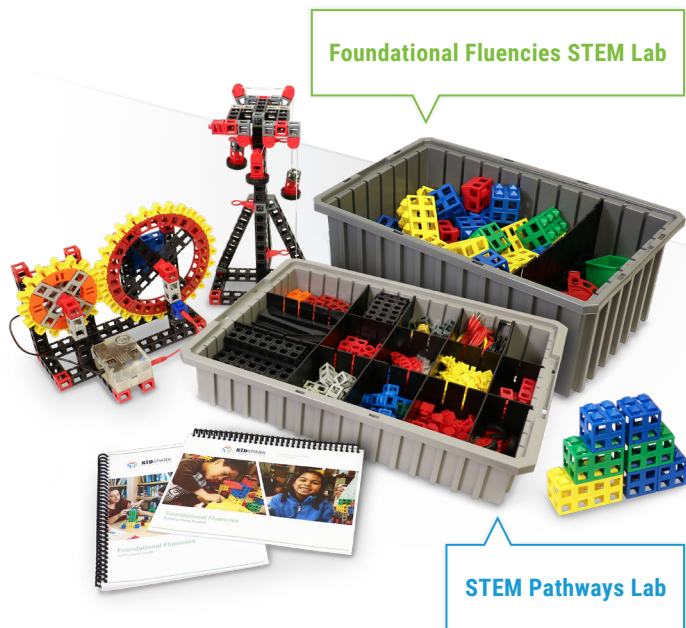
Compatible with most operating systems including **Chromebook, MacOS, and Windows.**



Includes "Motor Override Mode" which allows users to power motor and light modules with no programming required.

Each STEM Pathways Lab Includes:

- A large assortment of structural building components, articulating components, and robotics & electronic components.
- Transparent top lid which includes an inventory & organization guide to easily locate and manage materials in the lab.



Teach Kid Spark's Elementary & Middle School Programs with just two labs.

The **Foundational Fluencies STEM Lab** (grades Pre-K - 1) and the **STEM Pathways Lab** (grades 2 - 8) can be used to teach all of Kid Spark's Elementary & Middle School Programs.

Kid Spark programs are designed to help students learn foundational STEM fluencies the moment they enter school, and then build on their learning each and every year.

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