



Sales Representative Demonstration Kit

Pg. 01 Event Display

Pg. 02 Table Display

Pg. 03 Storage - Example Builds

Pg. 04 Storage - Table Display Items

Pg. 05 Display Fixtures For STEM Labs

Pg. 06 Example Build - Make Your Castle Move

Pg. 07 Example Build - Ball Maze

Pg. 08 Example Build - Gear Train

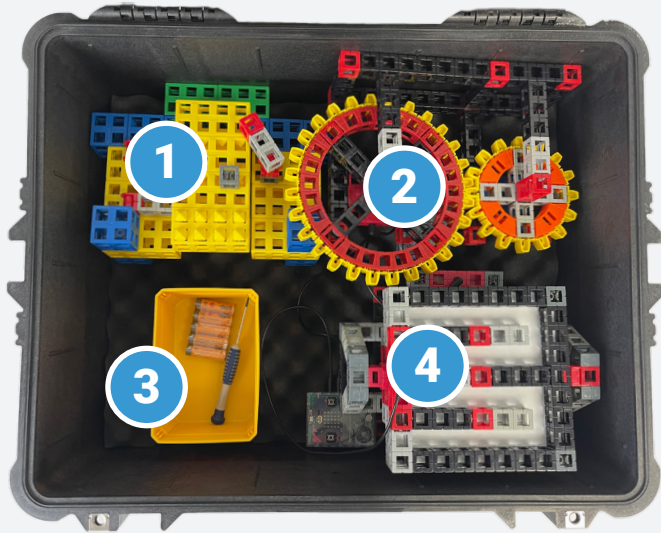
1. Hanging Banner
2. Pop-Up Banner
3. Table Display
4. Tablecloth



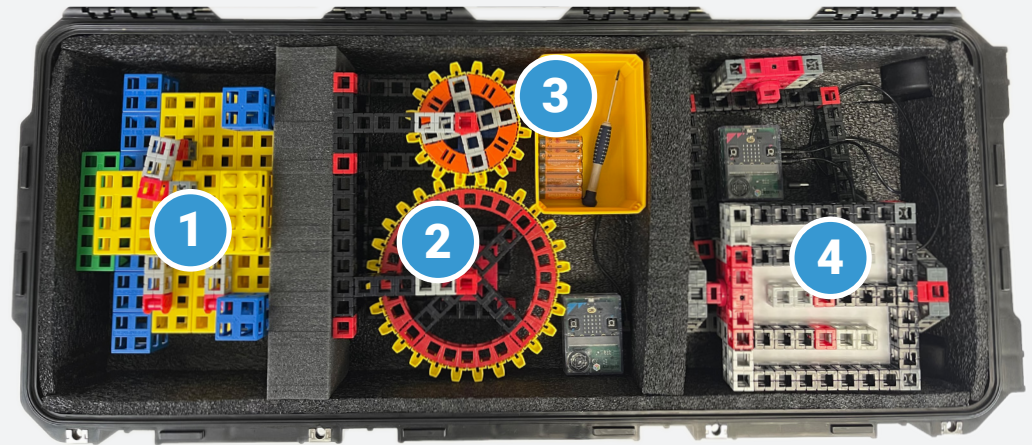


- 1. Foundational Fluencies STEM Lab**
Display instructions can be found on Pg. 5
- 2. STEM Pathways Lab**
Display instructions can be found on Pg. 5
- 3. Pre-K - 1st Grade STEM Program Brochure**
High level overview of Pre-K - 1st Grade Program
- 4. Example Build - Make Your Castle Move**
Build instructions & info can be found on Pg. 6
- 5. Pre-K - 1st Grade Instructional Booklets**
Instructors Guide & Building Plans Booklet
- 6. 2nd - 5th Grade STEM Program Brochure**
High level overview of 2nd - 5th Grade Program
- 7. Example Build - Ball Maze**
Build instructions & info can be found on Pg. 7
- 8. 2nd - 5th Grade Sample Curriculum Packet**
Includes sample lesson from each unit
- 9. 6th - 8th Grade STEM Program Brochure**
High level overview of 6th - 8th Grade Program
- 10. Example Build - Gear Train**
Build instructions & info can be found on Pg. 8
- 11. 6th - 8th Grade Sample Curriculum Packet**
Includes sample lesson from each unit
- 12. Postcard Handout**
High level overview of Kid Spark programs

Note: All materials on the display table, with the exception of the Postcard Handout, are not intended to be takeaway items.



Option 1: Pelican Case



Option 2: SKB Case

- 1. Example Build - Make Your Castle Move**
Build instructions & info can be found on Pg. 6
- 2. Example Build - Gear Train**
Build instructions & info can be found on Pg. 7

- 3. Storage Container**
Holds extra batteries, philips screwdriver, etc...
- 4. Example Build - Ball Maze**
Build instructions & info can be found on Pg. 8



Repurposed Dewalt Deep-Box Container

Used to store table display fixtures for new STEM Labs and two (2) 8.5 x 11 plastic display holders.



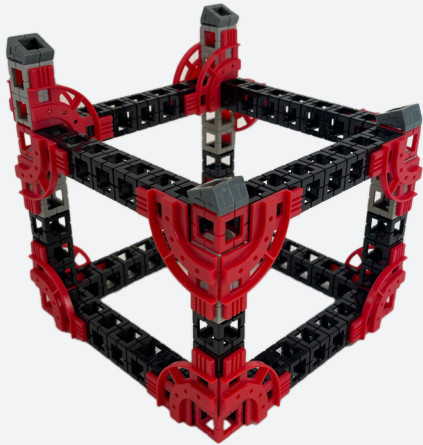
Repurposed Dewalt Deep-Drawer Container

Used to store Postcard Handouts and one (1) 6 x 9 plastic display holder.

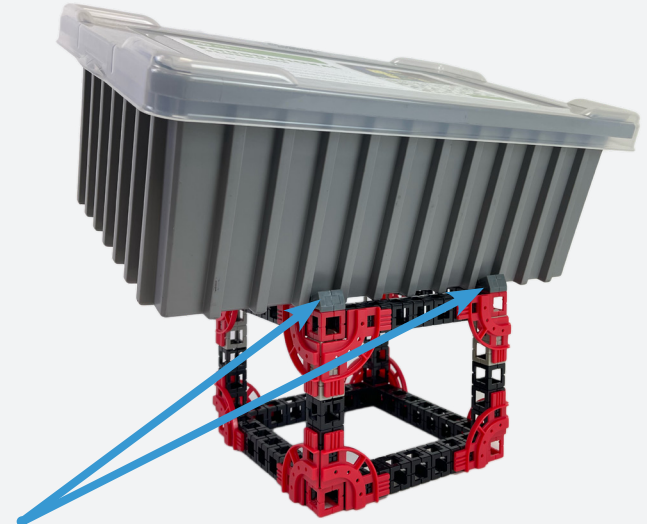


Repurposed Dewalt Deep-Drawer Container

Used to store Program Brochures, Sample Curriculum Packets, and one (1) 8.5 x 11 plastic display holders.



Foundational Fluencies STEM Lab
Display Fixture

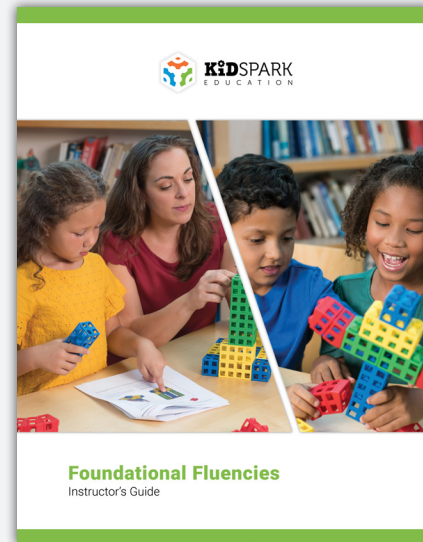
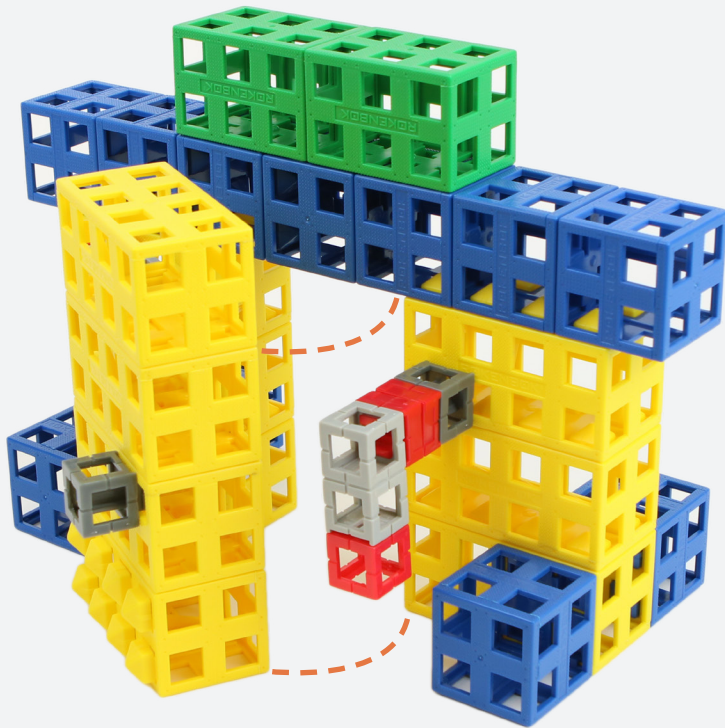


Note: Grooves on Lab should fit snug around the 30° Angle Blocks as shown.



STEM Pathways Lab
Display Fixture





Lesson Plan Example

Pgs. 73 - 75



Building Plans

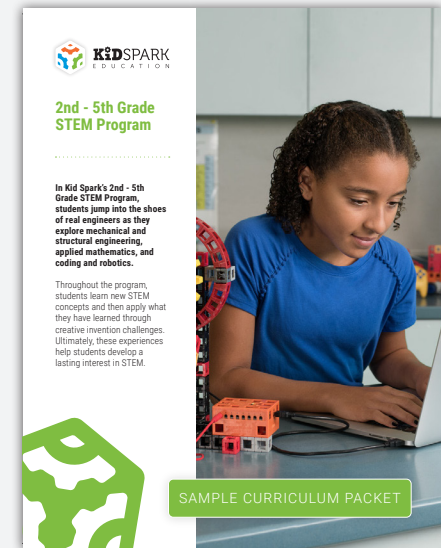
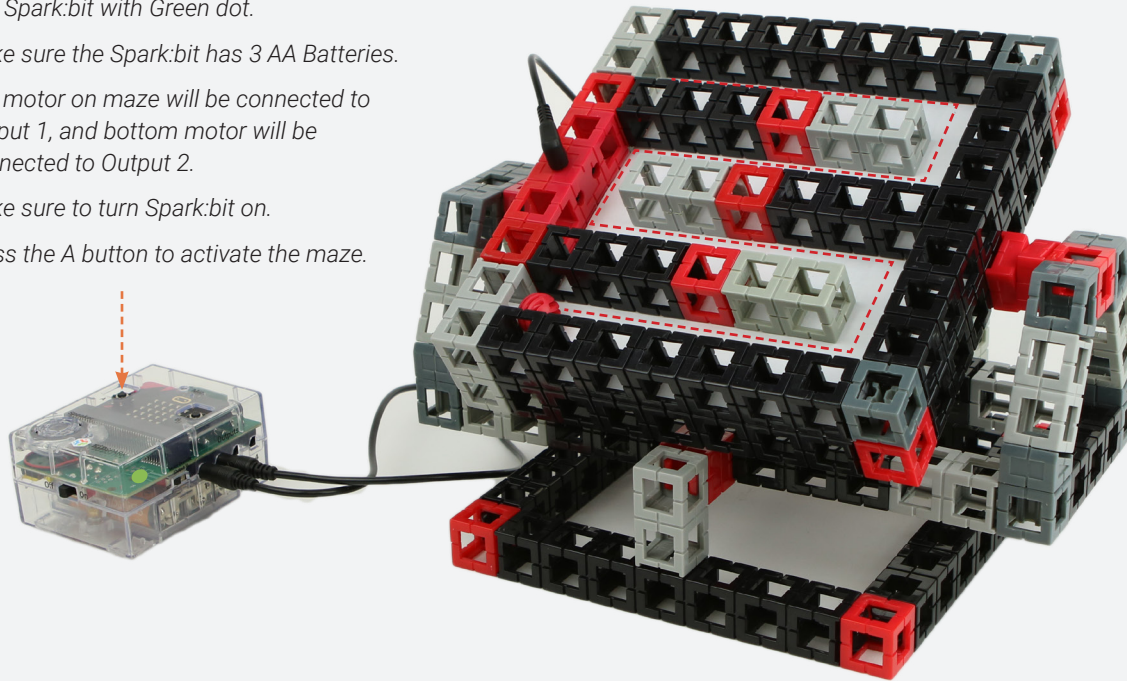
Pgs. 22 - 23

Description

This build demonstrates how very young students can learn basic engineering concepts such as how to make things move. In this example, students can learn how to use different articulating components (hinge blocks, axle blocks) to create a castle door that opens and closes, and a mechanism that can be used to secure the castle door.

Instructions:

1. Use Spark:bit with Green dot.
2. Make sure the Spark:bit has 3 AA Batteries.
3. Top motor on maze will be connected to Output 1, and bottom motor will be connected to Output 2.
4. Make sure to turn Spark:bit on.
5. Press the A button to activate the maze.



2nd-5th Grade Sample Curriculum Packet

Unit: Robotics & Coding 101

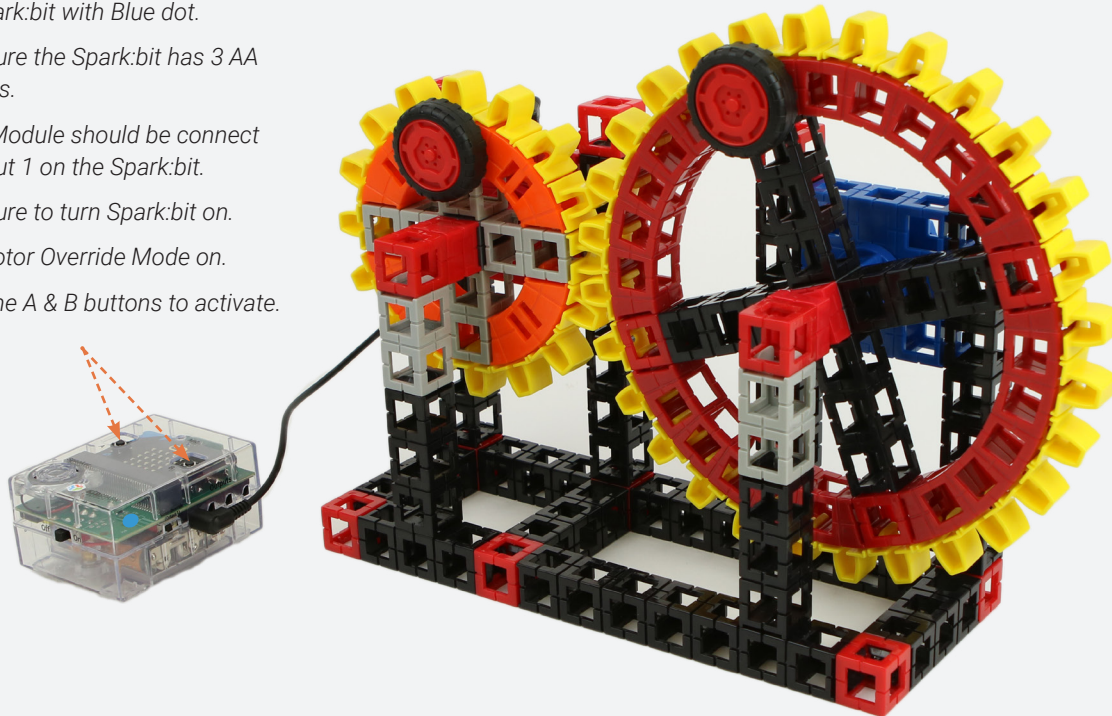
Lesson: Functions

Description

This build is used in the Robotics & Coding 101 Unit of Instruction. Students assemble the maze and then learn how to create functions within MakeCode (the program that is used to program the Spark:bit) to make a ball travel back and forth through the maze. This lesson is also supported by an interactive MakeCode tutorial (KidSparkEducation.org/robotics > **Robotics & Coding 101 > Functions**).

Instructions:

1. Use Spark:bit with Blue dot.
2. Make sure the Spark:bit has 3 AA Batteries.
3. Motor Module should be connect to Output 1 on the Spark:bit.
4. Make sure to turn Spark:bit on.
5. Turn Motor Override Mode on.
6. Press the A & B buttons to activate.



6th-8th Grade Sample Curriculum Packet

Unit: Compound Machines
Lesson: Gears & Gear Trains

Description

This build is used in the Compound Machines Unit of Instruction. Students assemble the Gear Train and explore how it can be used to increase torque or speed. In this example, the motor is connected to the smaller gear which is driving the larger gear. This setup is used to increase torque. To increase speed, the motor would need to be connected to the large gear.