



Blueprint Bit Kit

Prototype Your World™

Use the electrical Bits included in this kit along with the mechanical parts in the Build Kit to make a complete Engineering Kit!

Power your Blueprint Build with the Blueprint Bit Kit! This kit includes 17 electrical Bits—such as motors, sensors, and power Bits—along with 16 new mechanical parts, elevating your engineering skills and bringing your students' builds to life without the need for programming. The Blueprint Bit Kit enables teaching foundational control systems for robotics and digital electronics using your Build Kit and offers new challenges and two additional units of lesson plans. One Blueprint Bit Kit is recommended per Blueprint Build Kit.



KEY FEATURES & BENEFITS



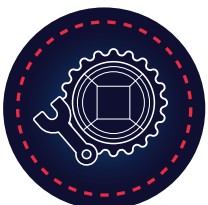
Bring Builds To Life

This Blueprint Bit Kit turns your Blueprint Build Kit into a Blueprint Engineering Kit to teach foundational control systems for robotics and digital electronics.



Easy Prototyping

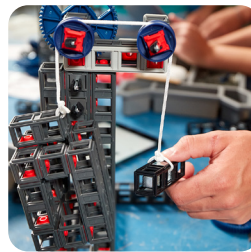
The mechanical parts and electrical Bits are easy to assemble for rapid prototyping due to their practical size and visual and technical simplicity.



Expand Engineering Skills

Access new challenges and units of lesson plans to go beyond mechanical engineering into electrical engineering design and principles.

ACTIVITY EXAMPLES



Control Systems

Take Blueprint to the next level with power, sensors, and motors! Blueprint Bits allow students to bring simple control systems to life. In this unit, students will explore fundamental aspects of circuits and control systems through hands-on builds and data collection.



Farm To Table

Technology and machines play crucial roles in our food system... all the way from the farm to the table. In this unit, students will design and build various machines that help farms, transportation companies, stores, and waste removal industries.

WHAT'S INCLUDED?

- 1 Blueprint Bit Kit:
 - 1 small storage bin
 - 17 bits: Power Bit, Motor Bits (2), 375mm Wire (2), 150mm Wires (4), 1m Distance Sensor, Button Bits (2), Rotary Potentiometer Bits (2), Data Display Bit, LED Bar Bit, Threshold Bit
 - 16 new Mechanical Build Parts: 100T Gears (2), Catapult End Effectors (2), 5x5 Plates (2), Wire Clamps (6), Rack Gears (4)
- Engineering Challenge Cards (5)