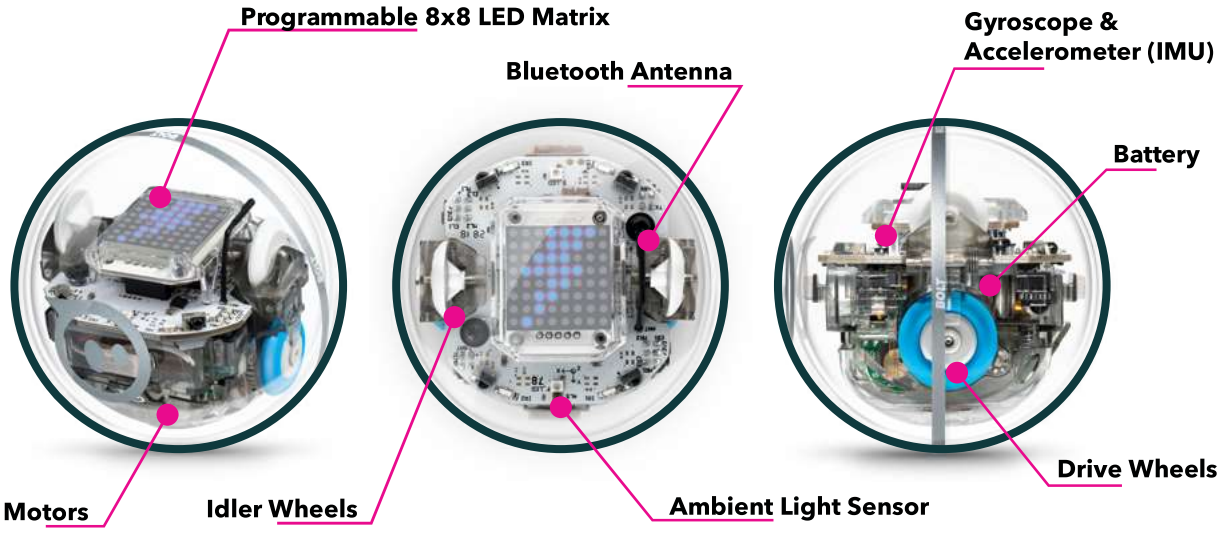
Getting Started



BOLT is super durable, programmable, and extensible. Its features will help learners of all abilities in grades 3 and up develop their programming and thinking skills.

BOLT's **battery** will last an entire school day under normal usage.

BOLT is equipped with **two drive motors**, one on each side of the robot, to enable movement like rolling and spinning. Motor encoders report back data on speed and distance.

BOLT has a **programmable 8x8 LED matrix** that can display any color, animation, scrolling text, or real-time data you tell it to! BOLT also includes a front RGB LED and a back RGB LED.

BOLT's onboard **sensors** allow it to gather data during program execution that can be used to program interesting logic in the Sphero Edu app. Here is an overview:

- **Accelerometer**: The accelerometer measures linear acceleration and can be used to detect changes in speed and collisions.
- **Gyroscope**: The gyroscope measures twisting or rotational movement around the pitch (x-axis), roll (y-axis), and yaw (z-axis).
- **Light Sensor**: The light sensor reads the light intensity (luminosity) in your environment from 0 - 100,000 lux, where 0 lux is full darkness and 30,000-100,000 lux is direct sunlight.
- **Infrared (IR) Sensors**: The IR sensors can be used to send and receive messages between BOLT robots within a 4 meter range.
- **Compass**: The compass sensor (it's really a "magnetometer") allows BOLT to know its orientation on earth, just like a normal compass.