Materials
- Cubelets
- Batteries (rcr123a-3volt)
- Battery Charger
- Needs electricity!
- Visual Aid: Different cubelets

Set-up Instructions
1. Layout cubelets (Cubelet types located on one of the cards in the box). 
2. Possibly create example (See pictures in cards in box).

SAFETY! Safe Demo!

Lesson’s Big Idea
- Modular design and creativity
- Allow kids to build basic robots without the need to program. It shows different types of sensors.

Background Information
- Engineering small systems to produce results. Use sensors in to determine how certain outputs are affected.
- Small circuits that allow electricity to run through them and are variable based on certain sensors.

Instructional Procedure
1. Layout the cubelets.
2. Explain what different cubelets do.
3. Let kids create different formations (provide demos as needed).

Assessment/sample questions you can ask
1. What happens when you get your hand closer to the distance sensor?
2. What happens when you cover the brightness sensor?
3. What happens if you did not have the gray cubelet hooked up?

**Clean Up**
- Shut off all power cubelets.
- Place cubelets in box.

**Next Generation Science Standards**
- K-5
  - 1-PS4-4
  - 2-PS1-3
  - 3-PS2-3
  - 4-PS3-2
  - 3-5-ETS1-3
- 6-8
  - MS-PS4
  - MS-PS3-5
  - MS-ETS1
- 9-12
  - HS-PS3-5
  - HS-PS4