littleBits
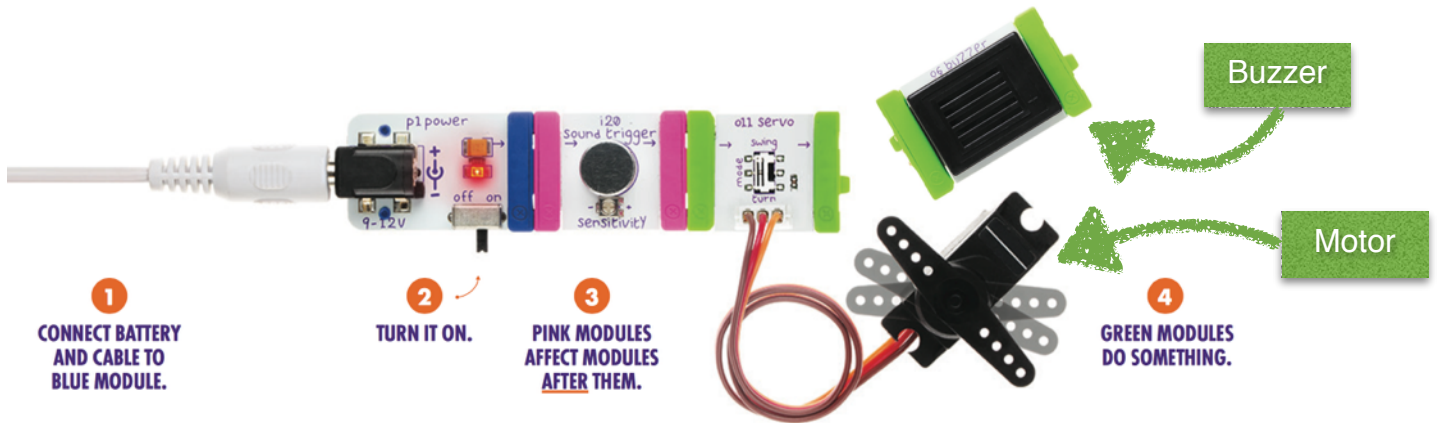## E L E C T R O N I C S

littleBits electronic components are part toy, part electronic prototyping platform. They snap together magnetically and are color-coded for ease of use.

1. **CONNECT BATTERY AND CABLE TO BLUE MODULE.**
2. **TURN IT ON.**
3. **PINK MODULES AFFECT MODULES AFTER THEM.**
4. **GREEN MODULES DO SOMETHING.**

Buzzer

Motor

Orange modules offer logical functions, wires that extend distance, connections to computers and other devices (MIDI, wireless transmitters, MaKey MaKey, Arduino, and more).
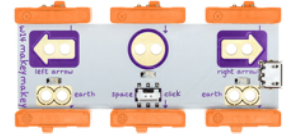
Tips and Troubleshooting

☑ Always start with a blue power module. All littleBits need a power module, either the battery power module or a special USB power module. (They will not automatically get power form the USB port.)

☑ Make sure you have a flat surface to work on, otherwise the bits may come apart slightly and not work. Use the white mounting boards for added stability.

☑ Test complex combinations a section at a time.

☑ Try a new battery.

☑ Some bits have tiny switches for on/off or different modes. Some have tiny sensitivity adjustment screws.

☑ Order matters! Build circuits from left to right. Input modules only affect the modules that come "after" them (meaning to the right).

Project ideas

From the littleBits website littlebits.cc

✳ Logic Lesson littleBits.cc/browse-lessons/introduction-to-logic

✳ Investigating the Law of Reflection littleBits.cc/browse-lessons/investigating-the-law-of-reflection

✳ Creepy Crawly Cockroach littleBits.cc/projects/creepy-crawly-cockroach

Challenges

✳ Make a robot that makes art

✳ Make a nightlight

✳ Invent a security system

The littleBits site offers projects, resources and a 15% educator discount   littlebits.cc

Invent To Learn Workshop Handout - littleBits