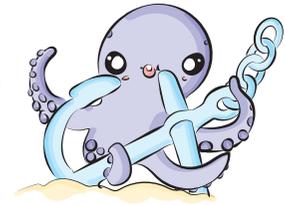


Explore the
Phenomenon!



Lesson Anchor

Make a light shine

Electronic devices are all around us, but have you ever built an electronic circuit? Every electronic circuit needs a power source, such as a battery or solar panel. Every circuit also needs something that will use the power, such as a light or a motor. How can you connect the components of a circuit to make it work?

What you'll need:

- a power source such as a battery or solar panel
- a small light
- wires or alligator clips



What you'll do:

Experiment to discover how to connect your power source to your light to make it shine.



4-PS3-2: Energy

Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.

When making their light shine, students observe that electricity travels from the battery to the light and that light travels from the light bulb to the eye.

This student connects his electronic components to make a light shine.

My Electric Circuit

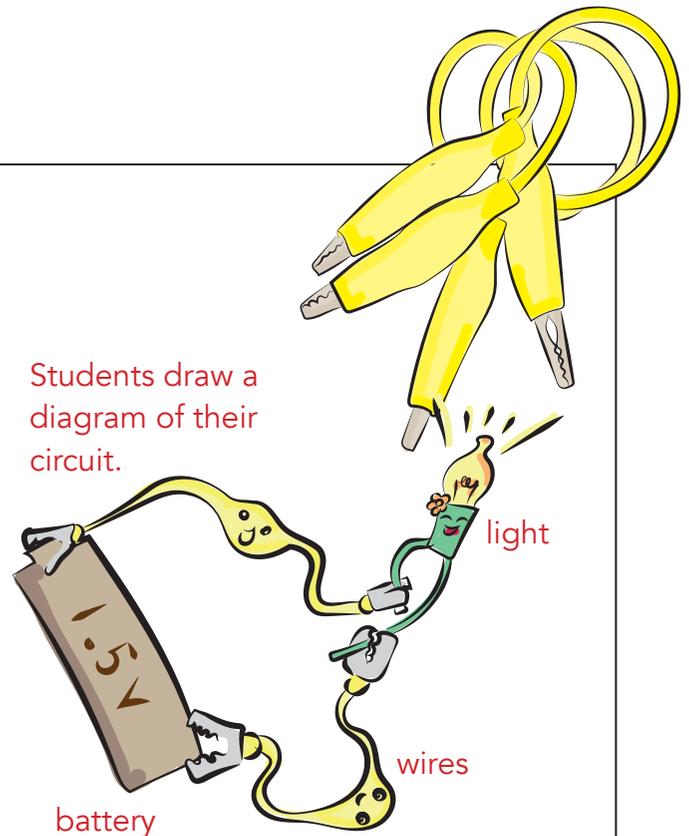
Build a circuit to make your light shine.

Draw your circuit here.

Science and Engineering Practices: Planning and Carrying Out Investigations

Make observations to produce data to serve as the basis for evidence for an explanation of a phenomenon or test a design solution.

Students make observations of their circuit and sketch how its components fit together to make a light shine. These observations will serve as the basis for evidence leading to an explanation of the phenomenon that energy can travel from place to place.



What difficulties did you have making your circuit? How did you overcome them?

I learned that the circuit must be connected to a power source and that the

wires must touch both sides of the battery. I learned that electricity flows in a

loop. If the circuit looks like a loop, or a necklace, the light will light up.