

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Circuits

**Vocabulary:** ammeter, circuit, current, electron, ohmmeter, Ohm's law, parallel circuit, resistance, resistor, series circuit, voltage

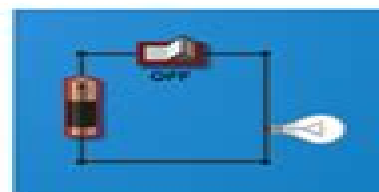
**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

Strings of holiday lights can be designed in one of two ways. In some strings of lights, each light is connected to the others along a single wire (in series). In others, each light is attached to its own wire (in parallel).

- Suppose a single light bulb burns out. How do you think this will affect lights that are strung along a single wire? Since all light bulbs are connected by one wire the lights would not work properly.
- How will a single burned-out bulb affect the string of lights if each light is attached to its own wire? Since each light has its own wire, the other lights will work fine.

### Gizmo Warm-up

The Circuits Gizmo shows a circuit board and a variety of components. Create a **circuit** with a battery, a light switch, a wire, and a light bulb, as shown. (Click the light switch to turn it to **OFF**.)



- Click the light switch to turn it to **ON**. What happens? The light bulb turns on due to the flow of electricity passing through.
- Turn on **Show current** and select **Electron flow**. The moving dots represent a **current** of **electrons**—tiny, negatively charged particles—moving through the wire. **Voltage** is a measure of how much more potential energy an electron at one end of a battery has than an electron at the other end of the battery.
  - How does changing the battery's voltage affect the current? Changing the voltage of the battery will have a direct impact on the current.
  - How does changing the battery's voltage affect the brightness of the light? Changing the battery's voltage will have a direct impact on the light bulb's brightness.
- Remove the wire. What happens? Removing the wire affects the current and turns off the light.

# Student Exploration Circuits Gizmo Answer Key

**R Bogdan**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Student Exploration Circuits Gizmo Answer Key:**

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