

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

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

## Student Exploration: Circuits

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

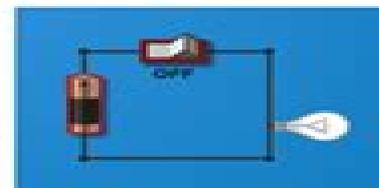
**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

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).

1. 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.
2. 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**.)



1. Click the light switch to turn it to **ON**. What happens? The light bulb turns on due to the flow of electricity passing through.
2. 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.
  - A. How does changing the battery's voltage affect the current? Changing the voltage of the battery will have a direct impact on the current.
  - B. 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.
3. Remove the wire. What happens? Removing the wire affects the current and turns off the light.

# Gizmo Answer Key Circuits

**F Rizvi**



**Gizmo Answer Key Circuits:**

Immerse yourself in the artistry of words with is expressive creation, Discover the Artistry of **Gizmo Answer Key Circuits** . This ebook, presented in a PDF format ( PDF Size: \*), is a masterpiece that goes beyond conventional storytelling. Indulge your senses in prose, poetry, and knowledge. Download now to let the beauty of literature and artistry envelop your mind in a unique and expressive way.

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