

Name: _____

Date: _____

Student Exploration: Circuits

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

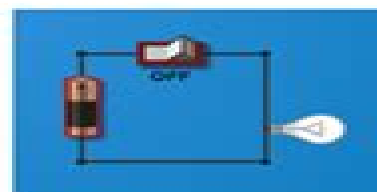
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

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.

Advanced Circuit Gizmo Answers

KJ Lindholm-Leary

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.

Advanced Circuit Gizmo Answers:

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will prove of value to other teachers and students Solutions are separated from the problems so that they will not be seen by accident The answer is given at the end of each problem however for convenience Parts of the book are based on the author's previous work *Electrical Engineering Problems with Solutions* which was published in 1954 *Circuit Troubleshooting Handbook* John D. Lenk, 1999 The *Circuit Troubleshooting Handbook* gives you full descriptions of the operation of important circuits And it shows you how each circuit's characteristics may figure in its failure or poor performance Without abstract theory or complicated math this book gives you the clear explanations and hands on troubleshooting procedures that will quickly point you toward the villain in any circuit malfunction whether it's the capacitor transistor resistor IC or any other component In circuit types with many variations you get the needed assortment of appropriate troubleshooting tactics

How to read electronic circuit diagrams Paul Lawrence, **Electronic Circuit Analysis for Scientists** James A. McCray, Thomas A. Cahill, 1973

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