

Name: _____

Date: _____

Student Exploration: Circuits

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

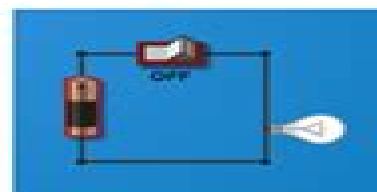
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

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

Wan Yong Loo

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

Gizmo Answer Key Circuits:

Sif Physics Ol Tb Wan Yong Loo,2007 Multidisciplinary Research Area in Arts, Science & Commerce (Volume-10)
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Mary, Dr. Rahul, Dr. S Poongavanam,2025-11-01 *Keyboard* ,1984 Experiments in Electric Circuits Brian H.
Stanley,2000 Student lab manual that includes 53 DC and AC experiments tied to the text

Gizmo Answer Key Circuits Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Gizmo Answer Key Circuits**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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