

Name: _____

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Student Exploration: Circuits

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

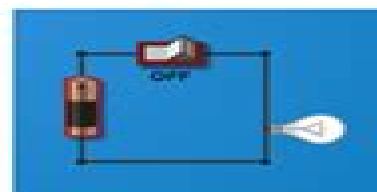
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

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.

Answer Key To Circuits Gizmo

Minjie Lin

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.

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Table of Contents Answer Key To Circuits Gizmo

1. Understanding the eBook Answer Key To Circuits Gizmo
 - The Rise of Digital Reading Answer Key To Circuits Gizmo
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key To Circuits Gizmo
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Key To Circuits Gizmo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key To Circuits Gizmo

- Personalized Recommendations
- Answer Key To Circuits Gizmo User Reviews and Ratings
- Answer Key To Circuits Gizmo and Bestseller Lists
- 5. Accessing Answer Key To Circuits Gizmo Free and Paid eBooks
 - Answer Key To Circuits Gizmo Public Domain eBooks
 - Answer Key To Circuits Gizmo eBook Subscription Services
 - Answer Key To Circuits Gizmo Budget-Friendly Options
- 6. Navigating Answer Key To Circuits Gizmo eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key To Circuits Gizmo Compatibility with Devices
 - Answer Key To Circuits Gizmo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key To Circuits Gizmo
 - Highlighting and Note-Taking Answer Key To Circuits Gizmo
 - Interactive Elements Answer Key To Circuits Gizmo
- 8. Staying Engaged with Answer Key To Circuits Gizmo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key To Circuits Gizmo
- 9. Balancing eBooks and Physical Books Answer Key To Circuits Gizmo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key To Circuits Gizmo
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Key To Circuits Gizmo
 - Setting Reading Goals Answer Key To Circuits Gizmo
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Key To Circuits Gizmo

- Fact-Checking eBook Content of Answer Key To Circuits Gizmo
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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