

Name: _____ Date: _____

Student Exploration: Circuit Builder

Vocabulary: circuit, closed circuit, conductor, current, electron, fuse, insulator, open circuit, parallel circuit, series circuit, short circuit

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

1. What do a light bulb, a toaster, a radio, and a computer all have in common? _____

2. Suppose you connect a battery to a small light bulb with a single wire. What do you think will happen? Explain your answer. _____

Gizmo Warm-up: Build a circuit

1. Using the **Standard components** in the upper left of the Gizmo™, try to get a light bulb to light up. You can drag as many bulbs, wires, batteries, switches and fuses as you like onto the circuit board.



A **circuit** is a path containing easily moveable charges. When the light bulb lights up, negatively-charged particles called **electrons** are flowing through the wire and bulb. This flow is called **current**.

2. Now try to light the bulb with the smallest number of components.

Make a sketch of your simple circuit in this space:



3. Based on what you have seen, what must be true for a circuit to light a bulb? _____

Activity A:

Closing a circuit

Get the Gizmo ready:

- Click **Clear**.
- Turn on **Show current** and select **Electron flow**.
- Set up components as shown to the right.



Introduction: You should have just built an **open circuit** (shown above). The gap on the left prevents the flow of charges. There are no gaps in a **closed circuit**, so charges can flow.

Question: What materials will close a circuit?

1. **Predict:** **Conductors** are materials with easily movable charges, allowing current to occur. **Insulators** do not have easily movable charges, so current is not produced. Look at the nine **Materials** at lower left. Which do you think are conductors? Which are insulators?

A. Predicted conductors: _____

Explorelearning Circuits Gizmo Answer Key

G Psacharopoulos

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.

Explorelearning Circuits Gizmo Answer Key:

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Table of Contents Explorelearning Circuits Gizmo Answer Key

1. Understanding the eBook Explorelearning Circuits Gizmo Answer Key
 - The Rise of Digital Reading Explorelearning Circuits Gizmo Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Explorelearning Circuits Gizmo Answer Key
 - 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 Explorelearning Circuits Gizmo Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explorelearning Circuits Gizmo Answer Key
 - Personalized Recommendations
 - Explorelearning Circuits Gizmo Answer Key User Reviews and Ratings
 - Explorelearning Circuits Gizmo Answer Key and Bestseller Lists
5. Accessing Explorelearning Circuits Gizmo Answer Key Free and Paid eBooks
 - Explorelearning Circuits Gizmo Answer Key Public Domain eBooks
 - Explorelearning Circuits Gizmo Answer Key eBook Subscription Services
 - Explorelearning Circuits Gizmo Answer Key Budget-Friendly Options
6. Navigating Explorelearning Circuits Gizmo Answer Key eBook Formats

- ePub, PDF, MOBI, and More
- Explorelearning Circuits Gizmo Answer Key Compatibility with Devices
- Explorelearning Circuits Gizmo Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Explorelearning Circuits Gizmo Answer Key
 - Highlighting and Note-Taking Explorelearning Circuits Gizmo Answer Key
 - Interactive Elements Explorelearning Circuits Gizmo Answer Key
- 8. Staying Engaged with Explorelearning Circuits Gizmo Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Explorelearning Circuits Gizmo Answer Key
- 9. Balancing eBooks and Physical Books Explorelearning Circuits Gizmo Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Explorelearning Circuits Gizmo Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Explorelearning Circuits Gizmo Answer Key
 - Setting Reading Goals Explorelearning Circuits Gizmo Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Explorelearning Circuits Gizmo Answer Key
 - Fact-Checking eBook Content of Explorelearning Circuits Gizmo Answer Key
 - 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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