

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: _____

Explore Learning Circuits Answer Key

Ian Pickup



Explore Learning Circuits Answer Key:

Decoding **Explore Learning Circuits Answer Key**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Explore Learning Circuits Answer Key**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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