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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?

They all have electrical currents

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

for the electricity to flow to the light bulb the circuit needs to be complete. if you only connect the one wire to a battery the circuit wouldn't be complete therefore making the light bulb not have light

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? _____

You would need a switch, wire, fuze, light bulb and 9-volt battery

Student Exploration Circuit Builder Answers

Sebastian Brünink



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