



Name: ariel herrera

Date: 5-7-24

Student Exploration: Circuit Builder

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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?

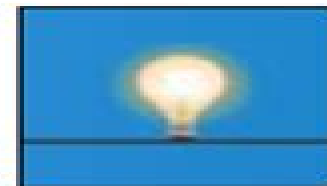
they all use electricity

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

nothing because the circuit is not complete.

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.

 Hand-draw in this space or click here to select EDIT to use the drawing tool.

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

you need a wire, switch, and 1.5v AA battery

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Patrick Vollmar



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