

Name:

Date:

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 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.

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



Student Exploration Circuit Builder Gizmo Answer Key

L Cohen



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connectivity cable wire time sensitive networking plcs pacs embedded control enclosures development platforms pneumatics electromechanical presence sensing linear measurement intrinsic safety

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