

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

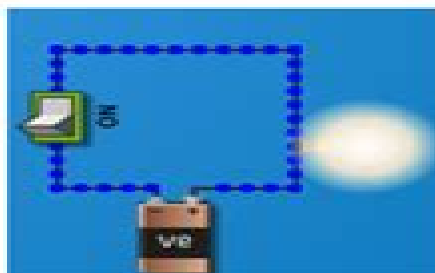
1. Using the **Standard components** in the upper left of the Gizmo, try to get a light bulb to light up. You can drag as many bulbs, wires, batteries, switches and fuses as you like onto the circuit board.



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

Ying-Ying Zheng



Student Exploration Circuit Builder:

Learning from Animations in Science Education Len Unsworth, 2020-11-10 This book examines educational semiotics and the representation of knowledge in school science It discusses the strategic integration of animation in science education It explores how learning through the creation of science animations takes place as well as how animation can be used in assessing student s science learning Science education animations are ubiquitous in a variety of different online sites including perhaps the most popularly accessed YouTube site and are also routinely included as digital augmentations to science textbooks They are popular with students and teachers and are a prominent feature of contemporary science teaching The proliferation of various kinds of science animations and the ready accessibility of sophisticated resources for creating them have emphasized the importance of research into various areas the nature of the semiotic construction of knowledge in the animation design the development of critical interpretation of available animations the strategic selection and use of animations to optimize student learning student creation of science animations and using animation in assessing student science learning This book brings together new developments in these research agendas to further multidisciplinary perspectives on research to enhance the design and pedagogic use of animation in school science education Chapter 1 is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

[Handbook of Artificial Intelligence in Education](#) Benedict du Boulay, Antonija Mitrovic, Kalina Yacef, 2023-01-20 Gathering insightful and stimulating contributions from leading global experts in Artificial Intelligence in Education AIED this comprehensive Handbook traces the development of AIED from its early foundations in the 1970s to the present day **Career**

Exploration on the Internet Elizabeth H. Oakes, 1998 The book contains URL s and descriptions of internet sites that deal with careers and job searches **The Builder** ,1865 *The Builder* ,1906 [Irish Builder and Engineer](#) ,1885 **The Journal of Industrial Arts Education** ,1966 **Journal of Industrial Arts Education** ,1966 *Popular Mechanics* ,1962-08 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle *Statistical Reference Index* ,1990

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,1912 **School Shop** ,1977 **Railway and Engineering Review** ,1898

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