Name: Emily Jo Durbin Date: 1-4-2024

## 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

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

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.



Now try to light the bulb with the smallest number of components.

> Make a sketch of your simple circuit in this space:

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 Teacher Guide**

Rob A. Rutenbar, Georges G. E. Gielen

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NMDME 2023 Yau Yuen Yeung, Seifedine Kadry, Guiyun Guan, 2024-01-22 This book contains the proceedings of the 3rd International Conference on New Media Development and Modernized Education NMDME 2023 which was held in a hybrid form from October 13th to 15th 2023 The conference topics include Educational Sciences Innovative Applications of Teaching Technology Modernized Vocational Education Digital Media Technology Digital Media Technology and Applications Virtual Technology and Intelligent Media Communication Computational Communication and Smart Media The conference provided a platform for discussing scientific research findings and cutting edge technologies in the fields of new media development and modernized education to encourage collaboration in the industrialization of academic achievements We invited specialists and intellectuals to attend the conference sharing their excellent contributions and perspectives in the speeches We hope that the scientific attitudes and skills developed through research will encourage scholars worldwide to contribute to the development of knowledge generated by research Finally we would like to express our gratitude to the conference chair publication chairs technical program committee chairs local organizing chairs program committee chairs conference secretariat and conference sponsors for their financial support which made the successful organization of NMDME 2023 possible We hope that this conference will continue to be held in the coming years publishing more insightful articles with inspiring research Inquiry and Problem Solving ,1999 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 **Resources in Education** ,2000-10 Handbook of Research on Collaborative Teaching Practice in Virtual Learning Environments Panconesi, Gianni, Guida, Maria, 2017-05-17 Modern technology has enhanced many aspects of life including classroom education By offering virtual learning experiences

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america circa 1000 a d which may have made him the first european to ever set foot in the new *leif erikson first european in north america thoughtco* - Sep 02 2022

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web aug 2 2023 born in the 10th century norse explorer leif eriksson was the second son of erik the red who is credited with settling greenland for his part eriksson is considered by many to be the first

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web oct 8 2021 to honor leif erikson son of iceland and grandson of norway and to celebrate our nordic american heritage the congress by joint resolution public law 88 566 approved on september 2 1964

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