

Engineering Simulation Lab

Introduction to Circuits

This lab uses the [Circuit Construction Kit DC](https://phet.colorado.edu/sims/html/circuit-construction-kit-dc/latest/circuit-construction-kit-dc_en.html) simulation from PhET Interactive Simulations at University of Colorado Boulder, under the CC-BY 4.0 license.

https://phet.colorado.edu/sims/html/circuit-construction-kit-dc/latest/circuit-construction-kit-dc_en.html

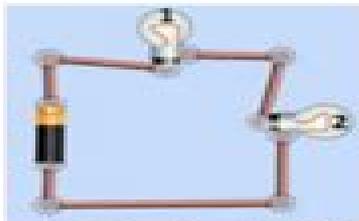
Learning Goals

- Explore basic electricity relationships.
- Explain basic electricity relationships in series and parallel circuits.
- Use an ammeter and voltmeter to take readings in circuits.
- Provide reasoning to explain the measurements and relationships in circuits.

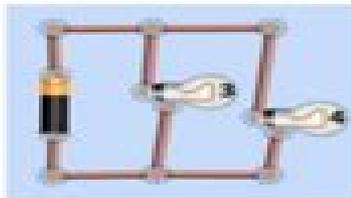
Prediction Questions

Consider the pictures of each of these circuits, then answer the questions below.

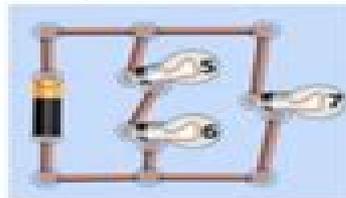
Series Circuit



Parallel Circuit



Complex Circuit



1. From the circuits above, predict which bulb (or bulbs) will be the brightest. Why do you think that?

Write your answer here:

2. Current is the flow of charge (measured in coulombs/sec = amps) in a circuit. Describe how you think current will flow in the different types of circuits above.

Develop your understanding:

3. Explore the [Intro](#) screen of Circuit Construction Kit DC
 - a. Build a circuit that shows how to make a light bulb light up.
 - b. Figure out how to measure current and voltage.
 - c. Insert an image of your circuit with the current and voltage measured.
4. Imagine you're an engineer making a string of battery powered holiday lights. If a bulb burns out current cannot flow through that bulb any longer like if the wire at the bulb has been cut. Figure out how to hook up 2 light bulbs and a battery so that when one bulb burns out or is disconnected the other stays lit.
 - a. Insert images to illustrate that your circuit works as expected.
 - b. Explain why you think it works.

Write your answer here:

5. Imagine that you want to make sure the battery for your string of lights will last as long as possible. A battery will last longer if it powers a circuit with low current. How could you hook up a battery and 2 light

Circuit Simulation Lab Answers

Rachel S Tattersall



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Table of Contents Circuit Simulation Lab Answers

1. Understanding the eBook Circuit Simulation Lab Answers
 - The Rise of Digital Reading Circuit Simulation Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Circuit Simulation Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Circuit Simulation Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Circuit Simulation Lab Answers
 - Personalized Recommendations
 - Circuit Simulation Lab Answers User Reviews and Ratings
 - Circuit Simulation Lab Answers and Bestseller Lists

5. Accessing Circuit Simulation Lab Answers Free and Paid eBooks
 - Circuit Simulation Lab Answers Public Domain eBooks
 - Circuit Simulation Lab Answers eBook Subscription Services
 - Circuit Simulation Lab Answers Budget-Friendly Options
6. Navigating Circuit Simulation Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Circuit Simulation Lab Answers Compatibility with Devices
 - Circuit Simulation Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Circuit Simulation Lab Answers
 - Highlighting and Note-Taking Circuit Simulation Lab Answers
 - Interactive Elements Circuit Simulation Lab Answers
8. Staying Engaged with Circuit Simulation Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Circuit Simulation Lab Answers
9. Balancing eBooks and Physical Books Circuit Simulation Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Circuit Simulation Lab Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Circuit Simulation Lab Answers
 - Setting Reading Goals Circuit Simulation Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Circuit Simulation Lab Answers
 - Fact-Checking eBook Content of Circuit Simulation Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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