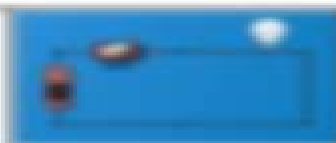


Activity B:
Series circuits

Get the Game ready

- Click **Clear**.
- Create a circuit as shown.
- Click the battery to select it. Set the **Selected battery voltage** to 10 volts.



Question: In a **SERIES CIRCUIT**, there is only one path for charge to flow. What are the properties of series circuits?

1. **Observe:** Turn the light switch **ON** and observe the light bulb. Then start replacing the wire segments with new light bulbs.

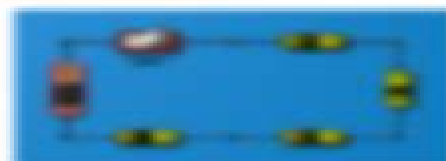
A. How does each new light bulb affect the others? **Each new light bulb will dim others.**

B. Use the **Ammeter** to measure the current in various parts of the circuit. Is the current the same throughout, or does it change? **Yes, current is same throughout.**

2. **Formulate a Hypothesis:** How do you think the total resistance of a series circuit is calculated?

The hypothesis can be formed as total resistance will be sum of all resistances.

3. **Experiment:** Create a series circuit with a 10-volt battery and four 10-ohm resistors, as shown. Measure the current.



A. Based on the voltage and current, what is the resistance of the circuit?

(Hint: Use Ohm's law.) **40ohms**

B. **Simulate** measure resistance. Remove the battery and attach the terminals of the **Ohmmeter** (**Ω**) to the ends of the circuit, where the battery used to be attached.

What is the resistance? **40ohms**

4. **State a rule:** How do you calculate the total resistance of a series circuit?

The rule can be formed as the total resistance is sum of all resistances. R_{total}

Test your rule using the Game. If necessary, modify your rule.

5. **Extend your thinking:** Replace the battery. Turn on **Show current**, and remove one resistor. Why would it be a problem if your household appliances were connected in a series circuit?

If my household appliances were connected in a series circuit it will be a problem as if one appliance goes off the all appliances will go off.

Gizmo Answer Key Circuits

James Roland

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Gizmo Answer Key Circuits:

Sif Physics Ol Tb Wan Yong Loo,2007 Keyboard ,1984 **Digital Circuits** William J. Streib,1990-06-01 **How Circuits Work** James Roland,2016-08-01 Have you ever wondered how electricity powers your home or school What about how that electricity travels In any device that uses electricity inside is a small path called a circuit through which electricity travels Whether we see them in these devices or not circuits are constantly at work But how do circuits work How were they invented Explore the key concepts that make up a circuit including the power source conducting path and load Learn how circuits power devices of all sizes from computers to the lights in your home to satellites in outer space

Delve into the emotional tapestry woven by Emotional Journey with in Dive into the Emotion of **Gizmo Answer Key Circuits** . This ebook, available for download in a PDF format (PDF Size: *), is more than just words on a page; it's a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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Table of Contents Gizmo Answer Key Circuits

1. Understanding the eBook Gizmo Answer Key Circuits
 - The Rise of Digital Reading Gizmo Answer Key Circuits
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Answer Key Circuits
 - 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 Gizmo Answer Key Circuits
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Answer Key Circuits
 - Personalized Recommendations
 - Gizmo Answer Key Circuits User Reviews and Ratings
 - Gizmo Answer Key Circuits and Bestseller Lists
5. Accessing Gizmo Answer Key Circuits Free and Paid eBooks
 - Gizmo Answer Key Circuits Public Domain eBooks
 - Gizmo Answer Key Circuits eBook Subscription Services
 - Gizmo Answer Key Circuits Budget-Friendly Options

6. Navigating Gizmo Answer Key Circuits eBook Formats
 - ePub, PDF, MOBI, and More
 - Gizmo Answer Key Circuits Compatibility with Devices
 - Gizmo Answer Key Circuits Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gizmo Answer Key Circuits
 - Highlighting and Note-Taking Gizmo Answer Key Circuits
 - Interactive Elements Gizmo Answer Key Circuits
8. Staying Engaged with Gizmo Answer Key Circuits
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gizmo Answer Key Circuits
9. Balancing eBooks and Physical Books Gizmo Answer Key Circuits
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gizmo Answer Key Circuits
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gizmo Answer Key Circuits
 - Setting Reading Goals Gizmo Answer Key Circuits
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gizmo Answer Key Circuits
 - Fact-Checking eBook Content of Gizmo Answer Key Circuits
 - 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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