

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:** 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** () 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

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The Imagineers,Imagineers (Group)



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Table of Contents Answer Key To The Circuit Builder Gizmo

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

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