

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

Answer Key To The Circuit Builder Gizmo

S Marginson



Answer Key To The Circuit Builder Gizmo:

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PC Board Design James K. Hollomon,1989 Ulrich's International Periodicals Directory ,1998 Walt Disney
Imagineering The Imagineers,Imagineers (Group),1998-10-07 Here is an explanation in colorful detail of the making of the
magic of Walt Disney World Disneyland Disneyland Paris and Tokyo Disneyland Full color photos *Microtimes* ,1999-06
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