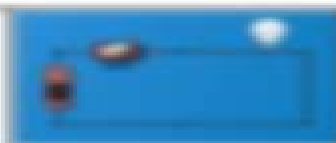


**Activity B:**  
**Series circuits**

**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.

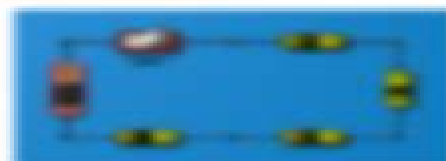
A. How does each new light bulb affect the others? **Each new light bulb will dim others.**

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** ( **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<sub>total</sub>**

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.**

# Explore Learning Circuitsanswer Sheets

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