

Series Circuits

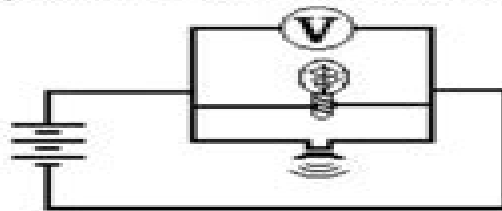
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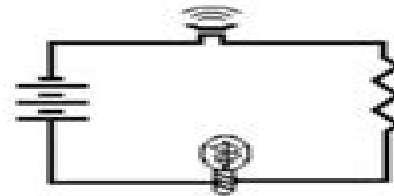
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MOP Connection: Electric Circuits: sublevels 7, 9 and 11

1. Electrical devices in circuits can be connected to each other in a number of different ways. The two most common connections are *series* connections and *parallel* connections. Observe the electrical wiring below. Indicate whether the connections are series or parallel.

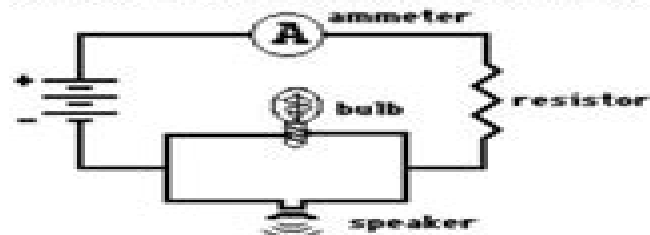


Parallel



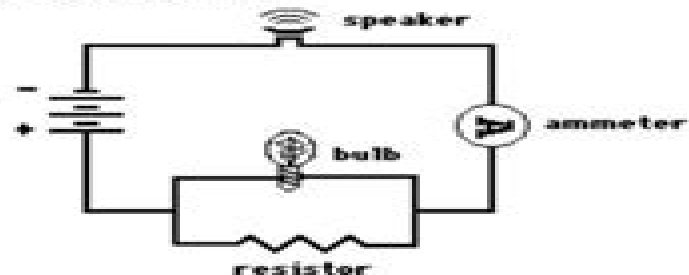
Series

2. Two electric circuits are diagrammed below. For each circuit, indicate which two devices are connected in series and which two devices are connected in parallel.



Series ammeter and resistor

Parallel bulb and speaker



Series ammeter and speaker

Parallel bulb and resistor

3. **Comparing Series vs. Parallel Circuits**

Fill in the table below to indicate the manner in which series and parallel circuits differ.

	Series Circuit	Parallel Circuit
a. Definition: The pathway by which charge loops around the circuit is characterized by _____ pathway(s).	<u>a single</u>	<u>multiple</u>
b. Observation: If one light bulb goes out, the other light bulbs _____.	<u>go out</u>	<u>remain lit</u>
c. Observation: As the number of resistors is increased, the overall current _____.	<u>decreases</u>	<u>increases</u>
d. Observation: As the number of resistors is increased, the overall resistance _____.	<u>increases</u>	<u>decreases</u>

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**William Brasher Clayton, James Watt
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