



Electricity and Circuits

Name: _____

Date: _____

Grade: Grade 4

Part A: Multiple Choice

Circle the best answer for each question.

1. Which statement about parallel circuits is true?

- A) All devices share one single path
- B) If one device breaks, all others stop working
- C) Each device has its own path for current
- D) Adding more devices makes each one brighter

2. A student builds a circuit with a battery, wires, and a bulb, but the bulb does not light. What is the most likely problem?

- A) The wires are too long
- B) There is a gap in the circuit
- C) The battery is too powerful
- D) The bulb is too bright

3. Which material would make the best wire for a circuit?

- A) rubber
- B) glass
- C) copper
- D) wood

4. Why do the lights in your house stay on when one light bulb burns out?

- A) The house uses very strong batteries
- B) The lights are wired in a series circuit
- C) The lights are wired in a parallel circuit
- D) The burned-out bulb still conducts electricity

Part B: Fill in the Blank

Write the correct answer on each line.

1. Electricity always follows the path of least _____.
2. A short circuit happens when electricity takes an unintended _____ and can cause overheating.
3. In a series circuit with three bulbs, removing one bulb creates an _____ circuit.
4. Metals are good conductors because their outer _____ move freely.
5. The brightness of a bulb in a circuit depends on the amount of _____ flowing through it.

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Part B: Fill in the Blank

Write the correct answer on each line.

1. Electricity always follows the path of least resistance.
2. A short circuit happens when electricity takes an unintended path and can cause overheating.
3. In a series circuit with three bulbs, removing one bulb creates an open circuit.
4. Metals are good conductors because their outer electrons move freely.
5. The brightness of a bulb in a circuit depends on the amount of current flowing through it.