



# Electricity and Circuits

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 4

## Part A: Fill in the Blank

Write the missing word or number on each line.

1. A circuit \_\_\_\_\_ automatically shuts off electricity when a circuit overloads.
2. Static electricity builds up when objects gain or lose \_\_\_\_\_.
3. Lightning is a natural form of \_\_\_\_\_ discharge.
4. The positive and negative ends of a battery are called \_\_\_\_\_.
5. Volts measure the amount of electrical \_\_\_\_\_ a battery provides.
6. A complete circuit must include a source of energy, a \_\_\_\_\_, and connecting wires.
7. Thick wires carry more current than \_\_\_\_\_ wires.
8. Rubbing a balloon on your hair creates \_\_\_\_\_ electricity.
9. Never fly a kite near power \_\_\_\_\_ because electricity can travel through the string.

## Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

series circuit	→		reusable switch that stops excess current
parallel circuit	→		one path for electricity to flow
fuse	→		multiple paths for electricity to flow
circuit breaker	→		thin wire that melts to break a circuit

## Answer Key · Electricity and Circuits · Grade: Grade 4

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### Part A: Fill in the Blank

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Write the missing word or number on each line.

1. A circuit breaker automatically shuts off electricity when a circuit overloads.
2. Static electricity builds up when objects gain or lose electrons.
3. Lightning is a natural form of electrical discharge.
4. The positive and negative ends of a battery are called terminals.
5. Volts measure the amount of electrical energy a battery provides.
6. A complete circuit must include a source of energy, a load, and connecting wires.
7. Thick wires carry more current than thin wires.
8. Rubbing a balloon on your hair creates static electricity.
9. Never fly a kite near power lines because electricity can travel through the string.

### Part B: Matching

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Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

series circuit	→ <u>one path for electricity to flow</u>	reusable switch that stops excess current
parallel circuit	→ <u>multiple paths for electricity to flow</u>	one path for electricity to flow
fuse	→ <u>thin wire that melts to break a circuit</u>	multiple paths for electricity to flow
circuit breaker	→ <u>reusable switch that stops excess current</u>	thin wire that melts to break a circuit