



# Electricity and Circuits

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

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

Grade: Grade 4

## Part A: Fill in the Blank

Write the missing word or number on each line.

1. In a series circuit, electricity follows \_\_\_\_\_ single path.
2. In a parallel circuit, electricity has \_\_\_\_\_ or more paths to follow.
3. If one bulb burns out in a series circuit, \_\_\_\_\_ the other bulbs go out.
4. If one bulb burns out in a parallel circuit, the other bulbs stay \_\_\_\_\_.
5. The lights in most homes are wired in \_\_\_\_\_ circuits.
6. A string of old holiday lights that all go out when one breaks is a \_\_\_\_\_ circuit.
7. Adding more bulbs to a series circuit makes each bulb shine \_\_\_\_\_.
8. The unit used to measure electric current is the \_\_\_\_\_.
9. A device that opens a circuit when too much current flows is called a \_\_\_\_\_.

## Part B: Matching

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

1. Match each item to its correct answer.

battery	→ _____	blocks the flow of electricity
switch	→ _____	provides energy to push current
conductor	→ _____	allows electricity to pass through
insulator	→ _____	opens and closes 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. In a series circuit, electricity follows one single path.
2. In a parallel circuit, electricity has two or more paths to follow.
3. If one bulb burns out in a series circuit, all the other bulbs go out.
4. If one bulb burns out in a parallel circuit, the other bulbs stay on .
5. The lights in most homes are wired in parallel circuits.
6. A string of old holiday lights that all go out when one breaks is a series circuit.
7. Adding more bulbs to a series circuit makes each bulb shine dimmer .
8. The unit used to measure electric current is the ampere .
9. A device that opens a circuit when too much current flows is called a fuse .

### 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.

battery	→ <u>provides energy to push current</u>	blocks the flow of electricity
switch	→ <u>opens and closes a circuit</u>	provides energy to push current
conductor	→ <u>allows electricity to pass through</u>	allows electricity to pass through
insulator	→ <u>blocks the flow of electricity</u>	opens and closes a circuit