



# Electricity and Circuits

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

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

Grade: Grade 4

## Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence:

Static electricity happens when protons move from one object to another by rubbing.

Rewrite: \_\_\_\_\_

2. Fix the sentence: A switch must stay closed for a circuit to stop working and turn off a light.

Rewrite: \_\_\_\_\_

3. Fix the sentence: In a parallel circuit, if one light bulb burns out, all the other bulbs go out too.

Rewrite: \_\_\_\_\_

## Part B: Fill in the Blank

Write the missing word or number on each line.

1. When you shuffle your feet on carpet and then touch a doorknob, you feel a shock from \_\_\_\_\_ electricity.
2. Every circuit needs an energy source, wires, and a \_\_\_\_\_ such as a bulb or motor.
3. Objects with the same electrical charge \_\_\_\_\_ each other.
4. A \_\_\_\_\_ is a device that stores chemical energy and converts it to electrical energy.

## Part C: Short Answer

Answer each question in one or two complete sentences.

1. Why does a balloon stick to a wall after you rub it on your hair?

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2. Describe what happens inside a flashlight when you flip the switch to the ON position.

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**Part A: Fix the Sentence**

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Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence:

Static electricity happens when protons move from one object to another by rubbing.

Rewrite: Static electricity happens when electrons move from one object to another by rubbing, causing one object to become negatively charged and the other positively charged.

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2. Fix the sentence: A switch must stay closed for a circuit to stop working and turn off a light.

Rewrite: A switch must be opened to break the circuit and turn off a light; closing the switch allows electricity to flow again.

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3. Fix the sentence: In a parallel circuit, if one light bulb burns out, all the other bulbs go out too.

Rewrite: In a parallel circuit, if one light bulb burns out, the other bulbs stay on because each bulb has its own separate path for electricity.

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**Part B: Fill in the Blank**

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Write the missing word or number on each line.

1. When you shuffle your feet on carpet and then touch a doorknob, you feel a shock from static electricity.
2. Every circuit needs an energy source, wires, and a load such as a bulb or motor.
3. Objects with the same electrical charge repel each other.
4. A battery is a device that stores chemical energy and converts it to electrical energy.

**Part C: Short Answer**

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Answer each question in one or two complete sentences.

1. Why does a balloon stick to a wall after you rub it on your hair?

*Rubbing the balloon on your hair transfers electrons to the balloon, giving it a negative charge. The charged balloon attracts the positive charges in the wall, which makes it stick.*

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