



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: A closed circuit has a gap so electricity cannot flow through the wires.

Rewrite: _____

2. Fix the sentence: Rubber is a good conductor of electricity, which is why wires are coated in rubber.

Rewrite: _____

3. Fix the sentence: A battery pushes electricity through a circuit using magnetism.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. A material that allows electricity to flow through it is called a _____.
2. A material that blocks the flow of electricity is called an _____.
3. A complete path that electricity follows is called a _____.
4. A _____ provides the energy that pushes electricity through a circuit.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. What is the difference between an open circuit and a closed circuit?

2. Why should you never touch electrical outlets or frayed wires with wet hands?

Answer Key · Electricity and Circuits · Grade: Grade 4

Part A: Fix the Sentence

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

1. Fix the sentence: A closed circuit has a gap so electricity cannot flow through the wires.

Rewrite: **A closed circuit has no gap, so electricity can flow in a complete loop through the wires.**

2. Fix the sentence: Rubber is a good conductor of electricity, which is why wires are coated in rubber.

Rewrite: **Rubber is a good insulator that blocks electricity, which is why wires are coated in rubber for safety.**

3. Fix the sentence: A battery pushes electricity through a circuit using magnetism.

Rewrite: **A battery pushes electricity through a circuit using chemical energy that is converted into electrical energy.**

Part B: Fill in the Blank

Write the missing word or number on each line.

1. A material that allows electricity to flow through it is called a conductor .
2. A material that blocks the flow of electricity is called an insulator .
3. A complete path that electricity follows is called a circuit .
4. A battery provides the energy that pushes electricity through a circuit.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. What is the difference between an open circuit and a closed circuit?

A closed circuit is a complete loop with no gaps, so electricity can flow. An open circuit has a break or gap, so electricity cannot flow and the device will not work.

2. Why should you never touch electrical outlets or frayed wires with wet hands?

Water is a conductor of electricity. Touching outlets or damaged wires with wet hands lets electricity flow through the water into your body, which can cause a dangerous shock.
