



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 series circuit gives electricity many different paths to travel through.

Rewrite: _____

2. Fix the sentence:

Aluminum foil is an insulator, so it should never be used to connect parts of a circuit.

Rewrite: _____

3. Fix the sentence:

When a battery runs out of energy, it means the wires inside the battery have broken apart.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

- The two ends of a battery are marked with a plus sign and a _____ sign.
- A _____ is a thin wire inside a light bulb that glows when electricity passes through it.
- Objects with opposite electrical charges _____ each other.
- A doorbell uses electricity to make _____ energy.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Why do batteries have a positive end and a negative end?

2. Give two examples of devices in your home that use electricity and name the type of energy each device produces.

Part A: Fix the Sentence

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

1. Fix the sentence: A series circuit gives electricity many different paths to travel through.

Rewrite: A series circuit gives electricity only one path to travel through; a parallel circuit provides many different paths.

2. Fix the sentence:

Aluminum foil is an insulator, so it should never be used to connect parts of a circuit.

Rewrite: Aluminum foil is a conductor that allows electricity to flow, so it can be used to connect parts of a simple circuit.

3. Fix the sentence:

When a battery runs out of energy, it means the wires inside the battery have broken apart.

Rewrite: When a battery runs out of energy, it means the chemicals inside the battery have been used up and can no longer produce electricity.

Part B: Fill in the Blank

Write the missing word or number on each line.

- The two ends of a battery are marked with a plus sign and a minus sign.
- A filament is a thin wire inside a light bulb that glows when electricity passes through it.
- Objects with opposite electrical charges attract each other.
- A doorbell uses electricity to make sound energy.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Why do batteries have a positive end and a negative end?

Batteries need a positive and negative end to create a difference in charge. This difference pushes electrons through the circuit from the negative terminal to the positive terminal, making electricity flow.
