



Energy: Forms and Transfer

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 toaster only changes electrical energy into light energy.

Rewrite: _____

2. Fix the sentence: A flashlight uses sound energy to light up the room.

Rewrite: _____

3. Fix the sentence: A cell phone only uses electrical energy and gives off no other form.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. A lamp turns electrical energy into light and _____ energy.
2. A toy car with a wound-up spring has stored _____ energy.
3. A speaker turns electrical energy into _____ energy.
4. A battery in a flashlight stores _____ energy until you turn it on.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. How does a hairdryer change one form of energy into two other forms?

2. Pick a kitchen device and describe the energy changes that happen when it is turned on.

Part A: Fix the Sentence

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

1. Fix the sentence: A toaster only changes electrical energy into light energy.

Rewrite: **A toaster changes electrical energy mostly into heat energy.**

2. Fix the sentence: A flashlight uses sound energy to light up the room.

Rewrite: **A flashlight uses electrical energy from batteries to make light energy.**

3. Fix the sentence: A cell phone only uses electrical energy and gives off no other form.

Rewrite: **A cell phone uses electrical energy and gives off light, sound, and a little heat.**

Part B: Fill in the Blank

Write the missing word or number on each line.

1. A lamp turns electrical energy into light and heat energy.
2. A toy car with a wound-up spring has stored potential energy.
3. A speaker turns electrical energy into sound energy.
4. A battery in a flashlight stores chemical energy until you turn it on.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. How does a hairdryer change one form of energy into two other forms?

A hairdryer plugs into the wall and uses electrical energy. Inside, the electricity makes a small motor spin, which is motion energy, and it also heats up a coil of wire, which gives off heat energy that warms the air blowing on your hair.

2. Pick a kitchen device and describe the energy changes that happen when it is turned on.

A blender uses electrical energy from the wall outlet. The electrical energy goes into a motor that turns the blades very fast, which is motion energy. The spinning blades also make sound energy and a little heat as they cut through the food inside.
