



# Energy: Forms and Transfer

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

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

Grade: Grade 4

## Part A: Fill in the Blank

Write the missing word or number on each line.

1. When a hot pan warms your hand, energy moves by direct \_\_\_\_\_ between the two objects.
2. Energy from the Sun reaches Earth as light \_\_\_\_\_ that travel through space.
3. Energy that flows through a wire from a battery is called an electric \_\_\_\_\_.
4. When metal touches metal and heat moves between them, this transfer is called \_\_\_\_\_.
5. Sound energy travels from a drum to your ear as a \_\_\_\_\_.
6. A circuit must form a complete \_\_\_\_\_ for electrical energy to flow.
7. When you rub your hands together quickly, friction transfers motion energy into \_\_\_\_\_ energy.
8. A wave that carries energy through water without moving the water far is called a water \_\_\_\_\_.
9. Energy can be transferred but it cannot be \_\_\_\_\_, only changed in form.

## Part B: Matching

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

1. Match each item to its correct answer.

Hot pan warming your hand	→ _____	Transfer by contact (conduction)
Sun heating the Earth	→ _____	Transfer by light waves (radiation)
Battery lighting a bulb	→ _____	Transfer by electric current
Drum sending sound to your ear	→ _____	Transfer by sound waves

**Part A: Fill in the Blank**

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Write the missing word or number on each line.

1. When a hot pan warms your hand, energy moves by direct contact between the two objects.
2. Energy from the Sun reaches Earth as light waves that travel through space.
3. Energy that flows through a wire from a battery is called an electric current.
4. When metal touches metal and heat moves between them, this transfer is called conduction.
5. Sound energy travels from a drum to your ear as a wave.
6. A circuit must form a complete loop for electrical energy to flow.
7. When you rub your hands together quickly, friction transfers motion energy into heat energy.
8. A wave that carries energy through water without moving the water far is called a water wave.
9. Energy can be transferred but it cannot be destroyed, only changed in form.

**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.

Hot pan warming your hand	→	<u>Transfer by contact (conduction)</u>	Transfer by contact (conduction)
Sun heating the Earth	→	<u>Transfer by light waves (radiation)</u>	Transfer by light waves (radiation)
Battery lighting a bulb	→	<u>Transfer by electric current</u>	Transfer by electric current
Drum sending sound to your ear	→	<u>Transfer by sound waves</u>	Transfer by sound waves