

# Energy Shape-Shifters Review

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## Understanding Energy Transformation

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

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

Answer the following questions based on what you learned about energy transformations.

1. What form of energy does a toaster use to create heat?

- A. Solar energy
- B. Electrical energy
- C. Mechanical energy

2. Explain how a light bulb transforms energy.

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3. Energy can change forms but never \_\_\_\_.

4. God created energy systems with incredible precision.

- True       False

5. What energy transformation occurs when you flip a light switch?

- A. Light to sound
- B. Electrical energy to light and heat
- C. Mechanical energy to electrical energy

6. Why is it important to understand how energy transforms?

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7. Colossians 1:17 reminds us that in God, all things hold \_\_\_\_.

8. Energy can be created and destroyed.

- True       False

9. Which of the following is an example of energy transformation?

- A. A running fan
- B. A burning candle
- C. A battery charging

10. Can you think of another object that changes energy? Describe it briefly.

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### Answer Key

1. Electrical energy   2. A light bulb transforms electrical energy into light and heat energy.   3. disappears   4. True   5. Electrical energy to light and heat   6. Understanding energy transformations helps us appreciate God's design in creation and how everything works together.   7. together   8. False   9. A burning candle   10. A microwave transforms electrical energy into heat energy to cook food.