

Energy and Waves Review

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Understanding God's Creation Through Energy

Name: _____

Date: _____

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

1. Which type of energy is stored and has the potential to do work?

- A. Kinetic
- B. Potential
- C. Thermal

2. How does understanding energy help us appreciate God's world? Give a couple of examples.

3. Sound energy is a type of potential energy.

- True False

4. The distance between two waves is called the ____.

5. What is the term for the height of a wave from its rest position?

- A. Amplitude
- B. Frequency
- C. Wavelength

6. Can you give an example of energy transformation? Explain what happens.

7. Energy conservation means that energy can be created or destroyed.

- True False

8. In waves, the number of waves that pass a point in one second is called the ____.

9. What kind of energy do we observe when a ball rolls down a hill?

- A. Potential
- B. Kinetic
- C. Thermal

10. How do you see energy working in God's creation? Provide an example from nature.

Answer Key

1. Potential 2. Understanding energy shows us how everything moves and interacts. For example, seeing how light energy helps plants grow and how kinetic energy allows us to play sports. 3. False 4. wavelength 5. Amplitude 6. An example is when a light bulb transforms electrical energy into light energy. The electricity flows through the wires and makes the bulb glow. 7. False 8. frequency 9. Kinetic 10. I see energy when the wind blows through the trees, causing the leaves to move. This shows how energy from the wind interacts with living things.
