

Energy Transfer and Transformation Review

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Understanding Potential and Kinetic Energy

Name: _____

Date: _____

Answer the following questions based on the lesson about potential and kinetic energy.

1. What is potential energy?

- A. Energy in motion
- B. Stored energy waiting to be released
- C. Energy that cannot be measured

2. Kinetic energy increases as an object moves faster.

True False

3. Height increases ____ energy.

4. What happens to the marble's energy as it rolls down the ramp?

5. What happens to an object's movement if it has more height on a ramp?

- A. It moves slower
- B. It has more potential energy
- C. It cannot move

6. The design of energy principles shows God's understanding and wisdom.

True False

7. Can you name an example of potential energy in nature?

8. Kinetic energy is energy in ____

9. What did Proverbs 3:19 say about Yahweh's creation?

- A. He created energy
- B. He founded the earth with wisdom
- C. He made everything by accident

10. How does height affect an object's potential energy?

Answer Key

1. Stored energy waiting to be released 2. True 3. potential 4. As the marble rolls down, its potential energy is converted to kinetic energy, making it move faster. 5. It has more potential energy 6. True 7. A rock at the top of a hill has potential energy because it can fall down. 8. motion 9. He founded the earth with wisdom 10. The higher an object is, the more potential energy it has because it can fall further.