

Name \_\_\_\_\_

## The Marvelous Law of Conservation of Energy

### Multiple Choice Questions

1. What does the Law of Conservation of Energy state?
  - a) Energy can be created and destroyed.
  - b) Energy can only change from one form to another.
  - c) Energy can be stored indefinitely.
  - d) Energy cannot change forms.
  
2. Which type of energy is associated with motion?
  - a) Kinetic energy
  - b) Potential energy
  - c) Chemical energy
  - d) Thermal energy
  
3. When a rolling ball comes to a stop, what happens to its kinetic energy?
  - a) It decreases and disappears.
  - b) It increases.
  - c) It is converted into other forms, like heat due to friction.
  - d) It remains the same.
  
4. What type of energy does a ball held high above the ground have?
  - a) Kinetic energy
  - b) Potential energy
  - c) Chemical energy
  - d) Thermal energy
  
5. How does the Law of Conservation of Energy relate to the bouncing ball's behavior?
  - a) It doesn't apply to the ball's motion.
  - b) It allows the ball to bounce forever.
  - c) It ensures that the total energy remains constant as kinetic energy converts into potential energy and vice versa.
  - d) It makes the ball lose energy.

