

Name _____

The Magical Dance of Potential and Kinetic Energy

Multiple Choice Questions

1. What is potential energy?
 - a) Energy of motion
 - b) Stored energy due to position or condition
 - c) Electrical energy
 - d) Thermal energy

2. When does an object have maximum kinetic energy?
 - a) When it is stationary
 - b) When it is at its highest point
 - c) When it is in motion
 - d) When it is at its lowest point

3. What happens to potential energy as a roller coaster descends from a hill?
 - a) It decreases, and kinetic energy increases.
 - b) It increases, and kinetic energy decreases.
 - c) It remains the same.
 - d) It disappears completely.

4. What is the law of conservation of energy?
 - a) Energy can be created but not destroyed.
 - b) Energy can be destroyed but not created.
 - c) Energy can change from one form to another but cannot be created or destroyed.
 - d) Energy cannot change forms.

5. Why does a pendulum have maximum kinetic energy at the lowest point of its swing?
 - a) Because it has maximum potential energy at that point.
 - b) Because it stops moving.
 - c) Because it loses energy.
 - d) Because it has maximum potential energy at the highest point.

