

Potential/Kinetic Energy Puzzle

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Potential and kinetic energy are types of energy that depend on the position and motion of an object. The formula for kinetic energy is:

$$\text{Kinetic energy} = \frac{1}{2}mv^2$$

The formula for potential energy is:

$$\text{Potential energy} = mgh$$

Here is a word scramble game for you to solve:

E N R G Y

S S A M

E E P D S

T H I G E H

A V I T R G Y

O T I N M

O T N I P O S

O R F C E

O R W K W E R O P

Unscramble the following words related to potential and kinetic energy:

- The ability to do work or cause change
- The amount of matter in an object
- The rate of change of distance
- The vertical distance of an object from the ground
- The force that pulls objects toward the center of the earth
- The change of position of an object
- The location of an object relative to a reference point
- The push or pull on an object
- The transfer of energy to an object by applying a force that causes the object to move in the direction of the force
- The rate at which work is done or energy is transferred