

## POTENTIAL AND KINETIC ENERGY



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### **Kinetic and Potential Energy Difference and Comparison**

Kinetic energy is energy possessed by a body by virtue of its movement. Potential energy is the energy possessed by a body by virtue of its position or state. While kinetic energy of an object is relative to the state of other objects in its environment, potential energy is completely independent of its environment.

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### **Kinetic energy vs Potential energy Softschools com**

Potential energy is a form of energy that results from an object's position or arrangement of parts. It is stored energy that can become kinetic energy. It includes potential electrical, chemical, and nuclear energy. The measurement of potential energy in an object is calculated based on the object's mass and its height or distance.

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### **Kinetic and Potential Energy UW Madison Chemistry**

Kinetic energy is directly proportional to the mass of the object and to the square of its velocity:  $K.E. = \frac{1}{2} m v^2$ . If the mass has units of kilograms and the velocity of meters per second, the kinetic energy has units of kilograms-meters squared per second squared.

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### **Potential Energy**

Gravitational Potential Energy. The two examples above illustrate the two forms of potential energy to be discussed in this course - gravitational potential energy and elastic potential energy. Gravitational potential energy is the energy stored in an object as the result of its vertical position or height.

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### **Potential and Kinetic Energy Maths Resources**

Potential and Kinetic Energy Energy. Energy is the capacity to do work.. The unit of energy is J (Joule) which is also  $\text{kg m}^2/\text{s}^2$  (kilogram meter squared per second squared). Energy can be in many forms! Here we look at Potential Energy (PE) and Kinetic Energy (KE).

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### **Kinetic energy Wikipedia**

The cars of a roller coaster reach their maximum kinetic energy when at the bottom of the path. When they start rising, the kinetic energy begins to be converted to gravitational potential energy. The sum of kinetic and potential energy in the system remains constant, ignoring losses to friction.

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### **Kinetic Energy to Potential Energy Relationship in**

Energy exists in different forms, all of which can be classified as either potential energy or kinetic energy. Potential energy is energy stored in an object due to its position or arrangement.

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### **What is the Difference Between Potential and Kinetic Energy**

The difference between potential and kinetic energy all comes down to a very simple property of the object. If an object is moving, then it has kinetic energy, or kinetic energy is the energy of movement. Potential energy is energy that is stored in an object and can be released under the right conditions. Therefore, the difference between these two types of energy comes down to whether an

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