

Example of energy in physics

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Mechanics, branch of physics concerned with the motion of bodies under the ...

conservation of energy, principle of physics according to which the energy of ...

potential energy, stored energy that depends upon the relative position of ...

principles of physical science, the procedures and concepts employed by ...

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Energy is defined as the ability to do work. There are many different forms of energy. According to the law of conservation of energy, energy may convert to other forms, but is never created or destroyed. Here is a list of 10 common types of energy and examples of each of them. Any object may possess multiple types of energy.

Example: An example of kinetic energy is a child swinging on a swing. At the top of the swing's arc, the kinetic energy is zero. No matter whether the child is swinging forward or backward, the kinetic energy is always zero or positive.

Kinetic energy is often discussed with potential energy because these two forms of energy readily convert between each other. Potential energy is energy of an object's position.

Examples: A classic example of potential energy is an apple resting on a table. The potential energy of the apple is zero with respect to the table, but positive with respect to the floor on which the table rests. In the case of a swinging child, potential energy is at its maximum when the swing is highest and at its minimum (zero) when the swing is closest to the ground.

Mechanical energy is the sum of the kinetic and potential energy of a system. It is the energy resulting from the movement or physical location of an object. Either the kinetic or potential energy may be zero at any given time.

Example: A car driving up and down a hill has both kinetic and potential energy. The car gains potential energy as it nears the top of the hill. Unless the brakes are applied, it gains kinetic energy as it goes down the hill.

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