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Notes: Energy is a conserved quantity: it can change forms and be transferred from one place to another, but it cannot be created or destroyed. For a process where energy changes forms or gets transferred, we can say that total energy before the process is equal to total energy after, or,  $\sum E_i = \sum E_f$ .

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Energy Conservation  
 Conservation of Energy. In  
 a closed system, where  
 no energy is added and  
 none can escape, the total  
 energy in that system  
 must remain constant.  
 When energy is converted  
 from one form to another,  
 the total energy before  
 the change has to equal  
 the total of all energies  
 after the change. It is not  
 possible to create or  
 destroy energy.

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 demonstrates the  
 connection between

kinetic and potential  
 energy and to see that  
 with a frictionless

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 Answers

According to the law of  
 energy conservation:  
 Energy can neither be  
 created nor destroyed;  
 however it can be  
 converted from one form  
 of energy to the other.  
 Also, we know that energy  
 is conserved in elastic  
 collision. Obviously, a loss  
 in energy during a  
 collision will imply that  
 the collision was inelastic.

Experiment to Study  
 Conservation of Energy

The law of conservation of  
 energy is a very important  
 law in thermodynamics  
 study in Physics.  
 According to it energy can  
 neither be created nor be  
 destroyed. But we may  
 transform it from one  
 form to another. If we  
 take all forms of energy  
 into consideration, then  
 the total energy of an  
 isolated system always  
 remains constant.

Conservation of Energy  
 Formula: Definition,  
 Equations and ...

Conservation of Energy in  
 the motion of simple  
 pendulum. In a simple  
 pendulum with no friction,  
 mechanical energy is

conserved. When a simple pendulum oscillates with simple harmonic motion, it gains some kinetic energy because of this type of motion. As the pendulum swings back and forth, there is a constant exchange between kinetic energy and gravitational potential energy.

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The law of Conservation of Energy states that energy cannot be created or destroyed - it can only be transferred from one type to another.

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Concepts of work, kinetic energy and potential energy are discussed; these concepts are combined with the work-energy theorem to provide a convenient

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Law of Conservation of energy: This law of conservation of energy is a fundamental law of physics and chemistry. According to the Law of Conservation of Energy "The energy can neither be created nor be destroyed, can only be transferred from one form to another" or it can be described as "in a closed system, the energy of interacting bodies or particles always remains constant".

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According to the law of energy conservation: Energy can neither be created nor destroyed; however it can be converted from one form of energy to the other. Also, we know that energy is conserved in elastic collision. Obviously, a loss in energy during a collision will imply that the collision was inelastic. The law of Conservation of Energy states that energy cannot be created or destroyed - it can only be transferred from one type to another.

The law of conservation of energy is a very important law in thermodynamics study in Physics. According to it energy can neither be created nor be destroyed. But we may transform it from one form to another. If we take all forms of energy into consideration, then the total energy of an isolated system always remains constant.

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