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Energy Work And

This relationship is called the work-energy theorem:  $W_{net} = K.E.f - K.E.o$ , where  $K.E.f$  is the final  
kinetic energy and  $K.E.o$  is the original kinetic energy. Potential energy. Potential energy, also referred  
to as stored energy, is the ability of a system to do work due to its position or internal structure.  
Examples are energy stored in a pile driver at the top of its path or energy stored in a coiled spring.

## Work and Energy

Study Guide Questions. Compare and contrast several different forms of energy. Understand the  
energetic dynamics of chemical bonds. In other words, know whether energy is USED UP or

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RELEASED when chemical bonds break and form.

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Work and Energy Study Guide Name: \_\_\_\_\_ Date: \_\_\_\_\_ 1. What happens to the kinetic energy of an object if its mass is quadrupled and its speed is halved? 2. In what direction does the force have to be applied for work to be done on an object?

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Use the work energy theorem to explain what happens to the work done on a box as it moves up a ramp: The amount of work done on an object is equal to the object's change in kinetic energy---As an object is pulled up an incline with friction, some of the work done on the object is converted into potential energy while the rest is lost as heat energy.

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10.1 WORK AND ENERGY STUDY GUIDE Note: Capitalized words are the answers to fill-in-the-blanks. Work is the product of the FORCE exerted on an object and the DISTANCE the object

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moves in the **DIRECTION** of the force. The equation used to calculate work is  $W = Fd$ . In this equation, **W** stands for **WORK**, **F** stands for **FORCE**, and **d** stands for **DISTANCE**.

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Work, Power and Energy Test Study Guide. **STUDY**. Flashcards. Learn. Write. Spell. Test. **PLAY**. Match. Gravity. Created by. maryalana **TEACHER**. Terms in this set (43) Work. using force to move an object a distance (when both the force and the motion of the object are in the same direction) Power.

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1. Energy is the ability to do work or cause change and occurs in many forms. 2. The two main types of energy are potential energy and kinetic energy. 3. Define Potential Energy: Potential energy is stored energy or energy at rest. Potential energy can be increased or decreased due to position or condition. 4.

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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 means of analyzing an object or system of objects moving between an initial and final state.

Work, Energy, and Power - The Physics Classroom

The unit of work is a newton-meter, or a  $\text{kg}\cdot\text{m}^2/\text{s}^2$  — exactly the same as a joule. When a force acts over a distance, it changes the kinetic energy of the object it acts on. This is known, creatively, as the work-energy theorem and can be expressed by an equation. Here  $v_f$  is the object's final velocity and  $v_i$  its initial velocity.

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Read Online Chapter 5 Work And Energy Study Guide For a gradually changing force, the work is expressed in integral form,  $W = \int F \cdot dx$ . Kinetic energy. Kinetic energy is the energy of an object in motion. The expression for kinetic energy can be derived from the definition ... Work and Energy Work/energy problem

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