

### potential and kinetic energy pdf

Work, Kinetic Energy and Potential Energy 6.1 The Important Stuff 6.1.1 Kinetic Energy For an object with mass  $m$  and speed  $v$ , the kinetic energy is defined as  $K = \frac{1}{2}mv^2$  (6.1) Kinetic energy is a scalar (it has magnitude but no direction); it is always a positive number; and it has SI units of  $\text{kg} \cdot \text{m}^2/\text{s}^2$ . This new combination of the basic ...

### Chapter 6 Work, Kinetic Energy and Potential Energy

Potential Energy Potential Energy is energy of position. An object gets potential energy from height, mass and gravity. An object with potential energy has the potential to do work. This potential is only released when the object falls. Kinetic Energy Kinetic Energy is energy of motion. An object gets kinetic energy from its mass and velocity.

### KINETIC AND POTENTIAL ENERGY WORKSHEET

II. Work-Kinetic Energy Theorem  $K_f - K_i = W$  (7.4) Change in the kinetic energy of the particle = Net work done on the particle III. Work done by a constant force - Gravitational force:  $W = Fd \cos \theta = mgd \cos \theta$  (7.5) Rising object:  $W = mgd \cos 180^\circ = -mgd$   $F_g$  transfers  $mgd$  energy from the object's kinetic energy.

### Chapter 7 Kinetic energy, potential energy, work - Physics

its potential and kinetic energies remain the same. When the planet is close to the sun, its potential energy is low and its kinetic energy high. The additional speed due to the increased kinetic energy keeps the planet from being pulled into the sun by the greater gravitational force it experiences at this point in its path.

### Kinetic and Potential Energy/Conservation of Energy

14.4 Change in Potential Energy and Zero Point for Potential Energy ... Equation Chapter 8 Section 1 Chapter 14 Potential Energy and Conservation of Energy There is a fact, or if you wish, a law, governing all natural phenomena ... mechanical energy, kinetic energy and potential energy. Our first task is to define what

### Chapter 14 Potential Energy and Conservation of Energy

have great potential, you will likely reach your goals. Potential energy has the ability to become kinetic energy. Potential energy is stored energy that will possibly become energy in motion. It is also the energy of position, which means that an object's power comes from gravity. Potential energy also appears in several forms.

### Kinetic and Potential Energy - Central Dauphin School District

kinetic and potential energy worksheet name: \_\_\_\_\_ Determine whether the objects in the following problems have kinetic or potential energy. Remember, kinetic energy is the energy of motion and potential energy is stored energy due to an

### KINETIC AND POTENTIAL ENERGY WORKSHEET Name: Kinetic

10. Calculate the kinetic energy of a truck that has a mass of 2900kg and is moving at 55m/s. 11. A bullet has a mass of 0.0042kg. The muzzle velocity of the bullet coming

### Potential and Kinetic Energy Worksheet

Kinetic and Potential Energy Vocabulary: kinetic energy energy of movement potential energy stored energy potential chemical energy stored energy released by chemical changes Comprehension Questions 1. Explain how speed and weight affect an amount of kinetic energy. 2.

### **Kinetic and Potential Energy - Described and Captioned**

Kinetic and Potential Energy Worksheet Name \_\_\_\_\_ Classify the following as a type of potential energy or kinetic energy (use the letters K or P) 1. A bicyclist pedaling up a hill \_\_\_\_\_ 2. An archer with his bow drawn \_\_\_\_\_ 3.

### **Kinetic and Potential Energy Worksheet Name - West Linn**

7. Kinetic Energy and Work Kinetic Energy: The kinetic energy of a moving object:  $k = \frac{1}{2}mv^2$  Kinetic energy is proportional to the square of the velocity. If the velocity of an object doubles, the kinetic energy increases by a

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