

Experiment 6 The Work Energy Theorem

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Experiment 6 The Work Energy EXPERIMENT 6: WORK AND ENERGY Objective: To validate the work-energy theorem and to study the conservation of energy principle. Theory: The work-energy theorem states that the net (total) work done on a system is equal to its increase in kinetic energy. You will determine the work done on a (nearly) frictionless cart and show that the work done is equal to the increase in kinetic energy of the cart. EXPERIMENT 6: WORK AND ENERGY Experiment 6 ~ the Work Energy Theorem. Purpose: The objective of this experiment is to examine the conversion of work into kinetic energy, specifically work done by the force of gravity. The work-kinetic energy theorem equates the net force (gravity, friction, air resistance, etc.) acting on a particle with the kinetic energy gained or lost by that particle. Experiment 6 ~ the Work Energy Theorem Experiment 6: Work and Energy Author: macrittenden Created Date: 6/15/2020 1:56:43 PM ... Experiment 6: Work and Energy - Faculty Experiment 6: Work, Power and Energy Laboratory Report Eljine Jayson Zhang, Shaira Madelene Vinta, Mel Marvin Villarante, Pauline Alyssa Vega, Camille Elijah Valdez, Nicole Dominique Vasquez Department of Physical Therapy College of Rehabilitation Sciences, University of Santo Tomas España, Manila Philippines Abstract This report aims to show how to determine the power output of going up a staircase and going down the same staircase, to determine the change in kinetic and potential energy ... Experiment 6: Work, Power and Energy Laboratory Report

... Experiment 6: Work, Power and Energy Laboratory Report 1. Introduction Work, power and energy are always in relation to each other for these three are always present in every... 2. Theory In this experiment, we will discover who is the most “powerful” person in the group by means of who does the... ... Experiment 6: Work, Power and Energy Laboratory Report ... EXPERIMENT 6 The conservation of mechanical energy is that any change ΔK in the kinetic energy is compensated by an equal and opposite change ΔU in the potential energy $\Delta K = -\Delta U$ However its not always conserved because mechanical energy is a system may converted to different types of energy such as chemical energy(in chemical bonding), thermal energy, electrical energy... 2 Derive equations (1) and (2). Exp 06 - Work and Energy - EXPERIMENT 6 Work and Energy ... View Notes - Experiment 6 - Work and Energy from PHYS 2125 at University of Texas. Student Name PHYS 2125 CRN# Campus October 5, 2012 Experiment 6 Work and Energy Group 3 1- OBJECTIVES: Calculate the Experiment 6 - Work and Energy - Student Name PHYS 2125 ... Question: PHYSICS 1101 EXPERIMENT #6 THE WORK-ENERGY PRINCIPLE PREPARATION SHEET Lab Assistant Name Lab Day & Hour_ Prepare For The Experiment By Doing The Tasks On This Sheet And Studying The Instructions For The Experiment. Date Submitted TURN IN THIS SHEET AT THE BEGINNING OF THE LABORATORY PERIOD. Study This Writeup And The Sections On Work, Kinetic Energy, ... Solved: PHYSICS 1101 EXPERIMENT #6 THE WORK-ENERGY PRINCIP ... Experiment 6 The Work-Energy Theorem 6.1 Materials to be brought to Laboratory Laboratory report folder Clear plastic ruler 6.2 List of Laboratory

Equipment Personal Computer Smart Pulley 1.2 Meter Track Universal Clamp Digital Balance Level PASCO 850 Universal Interface Force Sensor 1 Dynamics Car Ring Stand Set of Masses Clamp and Arm

6.3 Introduction

Consider an object that is confined to ...

Experiment 6 The Work-Energy Theorem

6.1 Materials ...

Work-Kinetic Energy Theorem Lab #6: The Work - Kinetic Energy Theorem

Goals:

- Determine the Work done by a constant & a non -constant force.
- Verify the Work-Kinetic Energy Theorem.
- Determine the Spring Constant, k , of a given spring and use it to calculate the work done by a spring.

Equipment List: Data Studio 1.2 meter track

Lab #6: The Work - Kinetic Energy Theorem

Experiment Objectives

Objective To teach the definitions of work and energy, kinetic energy, gravitational potential energy, the Work-Energy Theorem, to demonstrate non-conservative work due to friction and to demonstrate energy conservation for cars rolling down ramps.

Demonstration Lab - Work and Energy

Lab 6.Work and Energy. Lab 6.Work and Energy. Goals.

- To apply the concept of work to each of the forces acting on an object pulled up an incline at constant speed.
- To compare the total work on an object to the change in its kinetic energy as a first step in the application of the so-called Work-Energy Theorem.

Lab 6.Work and Energy - Washington State University

Grade Level: 4th - 7th; Type: Physics

The goal of this experiment is to learn about work and energy. Student will learn a simple mathematical formula for energy and be able to use this formula to predict outcomes.

Work and Energy | Science project | Education.com

The objective of this experiment is to examine the conversion of work into kinetic energy, specifically work done by the force of

gravity. The work-kinetic energy theorem equates the net force (gravity, friction, air resistance, etc.) acting on a particle with the kinetic energy gained or lost by that particle. Experiment 5 ~ The Work-Energy Theorem | UMSL If a force F is conservative, then there is a potential energy function $U(x)$ associated with it, such that Plugging this into the equation for the work done by a force, we get In words, the work done by a conservative force in moving from one point to another is equal to minus the change in potential energy. 3.If there are both conservative and non-conservative forces, we can combine the two ... Lab 4: Work and Energy - Harvard University Experiment #6 Work and Energy Pre-lab Questions Hints ** Disclaimer: This pre-lab is not to be copied, in whole or in part, unless a proper reference is made as to the source. (It is strongly recommended that you use this document only to generate ideas, or as a reference to explain complex physics necessary for completion of your work.) Copying Experiment #6 Work and Energy Pre-lab Questions Hints gravitational potential energy, as we saw in Experiment One. When they rolled down the ramp, some of the energy was converted to kinetic energy. The ratio of the kinetic energy gained to the work put in to lifting the cars is the efficiency (KE/GPE) of the system. Using the estimates of kinetic energy from problem 3, calculate the efficiency ... Lab 3: Work, Energy & Power Essentials of Physics: PHYS 101 This experiment was designed to investigate the relationship between work, potential energy, and kinetic energy. Applying equations learned in Physics class, it was possible to compare these to values measured by computer software. Examples used in the experiment were a cart, a

spring, and a mass. Lab Experiment: Work, Potential Energy, and Kinetic Energy Experiment 10 - The Work-Kinetic Energy Theorem 1 When investigating a physical system, it is often useful to determine the energies involved. In this lab we will investigate how the work done on a system can change the kinetic energy of that system. The Work-Kinetic Energy Theorem equates these two quantities. Experiment 10 - The Work-Kinetic Energy Theorem 1 Distance to Floor [m] Kinetic Energy [J] Total Energy [J] Figure 9: Experimental Data Obtained of Energy (Potential = Pink, Kinetic = Yellow, Total = Light Blue) versus Time. By analyzing the graph above, it appears that Energy is Conserved over the region of "pure free flight" (2.5s - 2.65s). Work and Energy - 10.

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