

## Experiment # 5

### Work, Energy and Power

#### Objective

The objectives of this lab are:

- To understand the concept of work, energy, and power,
- To be able to distinguish between potential energy and kinetic energy,
- To develop an understanding of how work can be measured,
- To understand the concept of mechanical energy of a system and energy conservations,
- To understand how all three concepts are related.

#### Introduction

This lab is about examining the concepts of work, energy, and power. We will explore some of the systems we have used in other experiments this semester. We hear these words (work, energy and power) several times a day without giving them much thought, but today you will have the opportunity to quantify them.

You will begin by comparing your intuitive, everyday understanding of work, energy and power with their formal mathematical definition. You will first consider the work done on a small object by a constant force. However, there are many cases where the force is not constant. For example, the force exerted on a spring increases the mass hanging on it. In this lab you will explore how to measure and calculate the work done by any force that acts on an object.

It is often useful to know the total amount of work that is being done, and also the rate at which it is done. The rate at which work is done is referred to as power. Energy (and the concept of conservation of energy) is a powerful and useful concept in all the sciences. It is one of the more challenging concepts to understand. You will begin the study of energy in this lab by considering *kinetic energy* – a type of energy which depends on the change in the velocity of an object and its mass.

If we compare the change of an object's kinetic energy to the net work done on it, it helps us investigate the concept of the *Work—Energy Principle*. You will study a Dynamic Cart being pulled up an inclined plane ( $\theta$  ranging from  $0 - 45^\circ$ ) by a force applied through a spring. How much work is done on the cart when it moves from point A to point B? What is the kinetic energy change of the cart? How is the change in kinetic energy related to the net work done on the cart by the spring? These are the questions you will investigate throughout this lab.

When we lift a load/object against the earth's gravitational pull, work is done. The more mass of the object or the higher it is lifted, the more the work that is done in doing the activity. The same

# Discovery Lab Exploring Work And Energy Answers

**F Rizvi**



**Discovery Lab Exploring Work And Energy Answers:**

## Reviewing **Discovery Lab Exploring Work And Energy Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Discovery Lab Exploring Work And Energy Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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