

## 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

**JE Gale**



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

This book delves into Discovery Lab Exploring Work And Energy Answers. Discovery Lab Exploring Work And Energy Answers is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Discovery Lab Exploring Work And Energy Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Discovery Lab Exploring Work And Energy Answers
    - Chapter 2: Essential Elements of Discovery Lab Exploring Work And Energy Answers
    - Chapter 3: Discovery Lab Exploring Work And Energy Answers in Everyday Life
    - Chapter 4: Discovery Lab Exploring Work And Energy Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Discovery Lab Exploring Work And Energy Answers. The first chapter will explore what Discovery Lab Exploring Work And Energy Answers is, why Discovery Lab Exploring Work And Energy Answers is vital, and how to effectively learn about Discovery Lab Exploring Work And Energy Answers.
  3. In chapter 2, the author will delve into the foundational concepts of Discovery Lab Exploring Work And Energy Answers. This chapter will elucidate the essential principles that need to be understood to grasp Discovery Lab Exploring Work And Energy Answers in its entirety.
  4. In chapter 3, this book will examine the practical applications of Discovery Lab Exploring Work And Energy Answers in daily life. This chapter will showcase real-world examples of how Discovery Lab Exploring Work And Energy Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Discovery Lab Exploring Work And Energy Answers in specific contexts. This chapter will explore how Discovery Lab Exploring Work And Energy Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Discovery Lab Exploring Work And Energy Answers. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Discovery Lab Exploring Work And Energy Answers.

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web the answer is meiosis cells in reproductive organs undergo meiosis as they divide to form germ cells that mature into gametes egg cells or sperm cells this diagram compares the processes of mitosis and meiosis in this descriptive lab you will model meiosis that begins in a cell of the fruit fly *Drosophila melanogaster* you will use

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web mar 23 2021 simulate mitosis move the chromosomes through each of the four stages of mitosis draw and label the pop bead chromosomes for one of the phases on a separate sheet it is not necessary to draw each individual bead draw a large circle on the paper to represent the cell and the nucleus with a pencil

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web after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and meiosis recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in animal and plant cells

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