

## 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

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## **Table of Contents Discovery Lab Exploring Work And Energy Answers**

1. Understanding the eBook Discovery Lab Exploring Work And Energy Answers
  - The Rise of Digital Reading Discovery Lab Exploring Work And Energy Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Discovery Lab Exploring Work And Energy Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Discovery Lab Exploring Work And Energy Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Discovery Lab Exploring Work And Energy Answers
  - Personalized Recommendations
  - Discovery Lab Exploring Work And Energy Answers User Reviews and Ratings
  - Discovery Lab Exploring Work And Energy Answers and Bestseller Lists
5. Accessing Discovery Lab Exploring Work And Energy Answers Free and Paid eBooks
  - Discovery Lab Exploring Work And Energy Answers Public Domain eBooks
  - Discovery Lab Exploring Work And Energy Answers eBook Subscription Services
  - Discovery Lab Exploring Work And Energy Answers Budget-Friendly Options

6. Navigating Discovery Lab Exploring Work And Energy Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Discovery Lab Exploring Work And Energy Answers Compatibility with Devices
  - Discovery Lab Exploring Work And Energy Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Discovery Lab Exploring Work And Energy Answers
  - Highlighting and Note-Taking Discovery Lab Exploring Work And Energy Answers
  - Interactive Elements Discovery Lab Exploring Work And Energy Answers
8. Staying Engaged with Discovery Lab Exploring Work And Energy Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Discovery Lab Exploring Work And Energy Answers
9. Balancing eBooks and Physical Books Discovery Lab Exploring Work And Energy Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Discovery Lab Exploring Work And Energy Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Discovery Lab Exploring Work And Energy Answers
  - Setting Reading Goals Discovery Lab Exploring Work And Energy Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Discovery Lab Exploring Work And Energy Answers
  - Fact-Checking eBook Content of Discovery Lab Exploring Work And Energy Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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