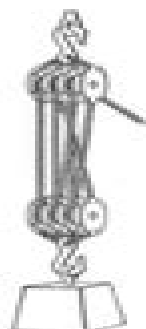


Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Pulley Lab

**Vocabulary:** block and tackle, conservation of energy, efficiency, friction, input force, load, mechanical advantage, output force, pulley, pulley system, simple machine, work



**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

A **pulley** is a wheel with a groove for a rope or cable. The image at left shows an example of a **pulley system**, also called a **block and tackle**.

1. Why do you think people use pulley systems to lift heavy loads? \_\_\_\_\_  
 So that its easier for them to lift

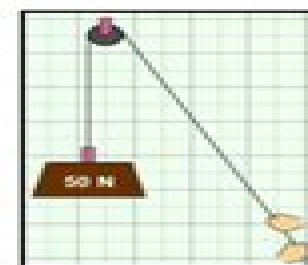
2. In what places have you seen pulleys at work? Construction site

### Gizmo Warm-up

The *Pulley Lab* Gizmo demonstrates why pulleys are useful for lifting loads. To begin, check that the Gizmo has the following settings:

- The **Pulley configuration** is **1 fixed**.
- **Ideal pulleys** (**0.0 N**) is selected.
- The **Weight** is **50 N** (50 newtons), and the **Efficiency** is **100%**.

To apply an **input force**, drag the **input force** spring balance to the right. Slowly increase the force until the 50-N **load** begins to rise.



1. What is the minimum force required to lift a 50-N load with one fixed pulley? 52n

2. Change the **Pulley configuration** to **1 fixed, 1 moveable**. As you did before, slowly drag the **input force** balance to the right until the load begins to lift.

A. What force is required to lift a 50-N load with this pulley system? 26n

B. What is one advantage of using a pulley system? \_\_\_\_\_  
 You can get things lifted faster

# Answers For Pulley Lab Gizmo

**LP Steffe**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'LP Steffe' text.

## **Answers For Pulley Lab Gizmo:**

The book delves into Answers For Pulley Lab Gizmo. Answers For Pulley Lab Gizmo is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Answers For Pulley Lab Gizmo, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Answers For Pulley Lab Gizmo
  - Chapter 2: Essential Elements of Answers For Pulley Lab Gizmo
  - Chapter 3: Answers For Pulley Lab Gizmo in Everyday Life
  - Chapter 4: Answers For Pulley Lab Gizmo in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Answers For Pulley Lab Gizmo. The first chapter will explore what Answers For Pulley Lab Gizmo is, why Answers For Pulley Lab Gizmo is vital, and how to effectively learn about Answers For Pulley Lab Gizmo.
3. In chapter 2, this book will delve into the foundational concepts of Answers For Pulley Lab Gizmo. The second chapter will elucidate the essential principles that need to be understood to grasp Answers For Pulley Lab Gizmo in its entirety.
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5. In chapter 4, the author will scrutinize the relevance of Answers For Pulley Lab Gizmo in specific contexts. This chapter will explore how Answers For Pulley Lab Gizmo is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Answers For Pulley Lab Gizmo. 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. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Answers For Pulley Lab Gizmo.

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