



Name: Kaelyn Travis

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## Student Exploration: Pulley Lab

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**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?

Pulleys provide a mechanical advantage, so

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

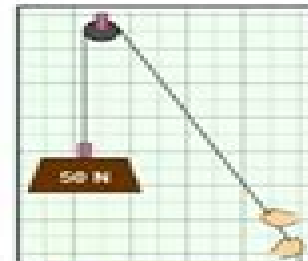
Stage curtains, garage doors

### 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?

51N

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?

25N

- B. What is one advantage of using a pulley system?

Lifts an object with minimal effort.

# What Are The Answers To Gizmo Pulley Lab

**Ying Liu**



### **What Are The Answers To Gizmo Pulley Lab:**

**Quick Science Lab: How Does a Pulley Work? Grades K-2** ,2014-01-01 Teach scientific concepts and the inquiry process with this self contained hands on lab activity while improving students critical thinking skills Students will learn the scientific process while building content knowledge about forces and motion

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