

Name: Alex M Date: March, 4th

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**.

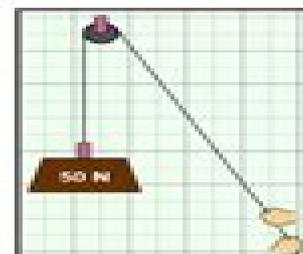
1. Why do you think people use pulley systems to lift heavy loads? People use the pulley system to lift heavy loads because it makes it easier for them to lift it.
2. In what places have you seen pulleys at work? Construction site

n-up

sb Gizmo demonstrates why pulleys are useful for lifting
gin, 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? 51 N
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? 26 N
 - B. What is one advantage of using a pulley system? You can lift things faster and its easier.

Physics Pulley Lab Answers

Lingjun Ying



Physics Pulley Lab Answers:

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