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.

- 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-uip

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.



- What is the minimum force required to lift a 50-N load with one fixed pulley? 51 N
- 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.

# **Answers For Pulley Lab Gizmo**

**Sarah Tieck** 

**Answers For Pulley Lab Gizmo:** 

Embracing the Melody of Term: An Psychological Symphony within Answers For Pulley Lab Gizmo

In a world eaten by screens and the ceaseless chatter of fast transmission, the melodic beauty and psychological symphony created by the written word often disappear into the background, eclipsed by the persistent sound and distractions that permeate our lives. However, situated within the pages of **Answers For Pulley Lab Gizmo** an enchanting literary value filled with natural feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that charming masterpiece conducts readers on an emotional journey, skillfully unraveling the concealed melodies and profound impact resonating within each cautiously crafted phrase. Within the depths of the poignant analysis, we will explore the book is central harmonies, analyze its enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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