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**

**James De Medeiros** 

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