Name:

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Date:

07-13-2022

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.

Why do you think people use pulley systems to lift heavy loads?

Pulleys provide a mechanical advantage, so

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.

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



51N

- 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.

Pulley Gizmo Answer Key

Wenbin Ji



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