

Topic/Concept: Mechanical Advantage / Simple Machines

EVALUATE	ELABORATE	EXPLAIN	EXPLORE	ENGAGE
Students perform a successful trial of at least 200 g, while verbally explaining the process. Journal write: What did I learn from this lab? How might I apply this past this lab?	On their posters, students identify where forces were applied and distributed, and how mechanical advantage was used in their trials (i.e. Input force v. Output force).	Students are given a sheet of butcher paper, and are asked to divide it half. One half should be devoted to a failed trial, one to a successful trial. Students draw detailed and labeled diagrams of both trials, and share with class. Instructor presents a short power point which presents the ideas of force and mechanical advantage, simple pulleys.	Students are given the following lab equipment: 1. Ring Stand and table clamp. 2. 2' ex string. 3. Set of weights (2000 g total) 3. single and double pulley Challenge students to test their hypothesis by using their celery string to lift the most mass possible. Challenge students by having a minimum requirement of mass to be lifted - 200 g. Ask students: How will you use what is available to apply the greatest force without snapping your celery?	Students are given a long stalk of celery, and are asked to pull out one string from the stalk. Ask students to test the string's strength by giving it a quick pull on either end. Ask students to hypothesize just how much force one celery string can withhold.

Five E Lesson Plan Template

Standard(s): 1C. Students know that when one object exerts a force on a second object, the second object always exerts a force of equal magnitude and in the opposite direction (Newton's third law).

1d. Students know how to apply the law $F=ma$ to solve one-dimensional motion problems that involve constant forces (Newton's second law).

Materials: Described in *Explore*.

Mechanical Advantage Study Guide

Léo Pomar



Mechanical Advantage Study Guide:

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