

Rube Goldberg Machine!

Materials:

- You can use anything you have available at home for your machine
- Video camera—could be a camcorder, cell phone, iPod, etc.

Procedures:

1. You may work alone, or in a group of up to 6 people. Your group members can be from other class periods or other teachers classes
2. The machine must contain a minimum of 7 steps, and include 5 different types of simple machines (There are 9 different types total—see the back of this paper)
 - a. Your machine must perform a simple task (like opening a door, pushing a button, smashing a grape, popping a balloon, etc.)
3. Final projects should NOT be brought to school! You must FILM your project and bring the video to class.
 - a. As you film your project, be sure to introduce yourselves and describe what your machine is designed to do. Quickly explain each step of the machine, then demonstrate it.
 - b. You can email the video to scoates@alpinedistrict.org
 - c. You can put the video on a jump drive (I have Quicktime and Windows Media Player on my computer, so please send files with a .mp4, .wmv, or .flv extension)
 - d. You only need to turn in ONE video file per group 😊

EXTRA CREDIT OPTION:

Present your Rube Goldberg Machine as a creative infomercial and it will be entered in the school-wide contest! This will require some editing and a lot of extra time.

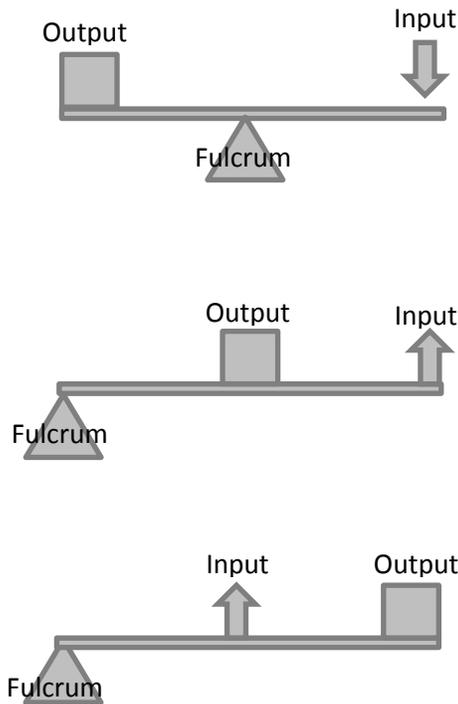
This project is due: May 14th (A day)/ May 15th (B Day)

Scoring Rubric:

Requirement	0	10	20	30	40	50
Project has 7 different steps						
Project has 5 DIFFERENT simple machines						
Function ability—Machine actually works						
Originality and Creativity						
TOTAL (200 points)						

Simple Machines

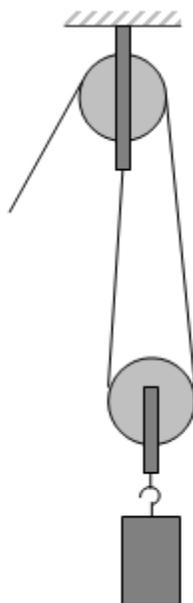
Types of Levers



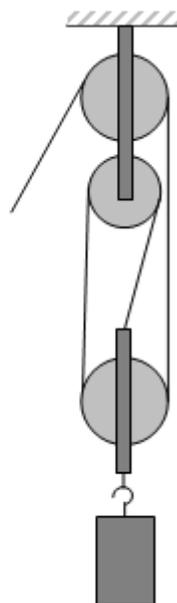
3 Types of Pulleys



Fixed Pulley



Movable Pulley



Block and Tackle