

## Compound Machine Project:

LO: Design and construct a device that carries out a specific task using three or more types of simple machines.

SLE: Think critically, creatively and independently.

Your task: To create a compound machine (Rube Goldberg Device) that pours a cup of water into a second cup of water using at least three different kinds of simple machines.

Groupings: You will work with one other student on this project.

Guidelines/Rules:

1. You will work with one other person on this project
  1. Your device must use three or more separate types of simple machines.
  2. Your device must be able to accomplish its task after being set in motion *one time* by the operator of the device.
  3. Your device must be able to successfully pour water from one cup into another without spilling more than a few drops of water.
  4. Creativity will earn you more points.

Scoring:

\_\_\_ The project includes a written design plan (diagram) that describes how it is constructed and how it works.

\_\_\_ The device uses three or more separate types of simple machine.

\_\_\_ The device can perform its task using a single hand motion by a human being.

\_\_\_ The device can successfully pour water from one cup to another.

\_\_\_ The device suggests effort and creativity were used in its creation.

Each item is worth 3 points, for a total score of 15 points.