

Project 2

Motorless Orbital Universal Siamese Elastic Transforming Rotating Apparatus Propelled

Carriage and Accelerated Rover

In this build you in your team will use the following materials to plan, design, test, and modify a cart propelled only by a system of springs. Your team may only use the following materials and all building must happen during class.

Materials

1 Dow Rod

30 Popsicle Sticks

2 Mouse traps

3 CDs

20 mins of Hot Glue time

4 meters of string

1 Meter of Industrial duct tape

We will be competing on distance. You are free to research the many designs of anyone who has completed this or similar projects. But all testing must be done in my sight.

The Math.

You and your partner will be quantifying the following in a written 1 page essay. Discuss the formulas of motion of your cart. Including Force, Energy, Velocity and Rotational Mechanics. You will also need to show your numbers and work for your best launch. 1 paper per team.