

# Ping Pong Ball Launcher Project Fall 2011

## Objective:

To construct a device which will propel a ping pong ball the greatest distance using the energy from a single official rubber band.

## Rules:

1. Entrants will launch from a starting line in the hallway by the office.
2. The entrant may hold the device to the floor, but **MAY NOT ADJUST THE LAUNCH ANGLE.**
3. Launch angle must be pre-set on the device.
4. Distance will be measured on a line perpendicular to the launch line, minus the distance from the perpendicular line that the ball "drifts".
5. The point at which the ball leaves the device may be no more than 1 meter from the floor.
6. The ping pong ball must fly solo.
7. All the energy used to propel the ball must come only from the rubber band.
8. The best of 2 trials will be taken.

## Grading:

This project will be part of your test grade and is worth 70 pts + journals.

Workable Design	25 pts
Winner	Best distance will receive 25 pts. Other entries will receive pts in reference to the winner.
Journal	1 pt for each entry, Mr. Duhrkopf will give you the entry days.
Project Report	20 pts (Website format)

## Timeline

Sept 2011 – Project introduction, group choices (3), Rubber bands handed out, 1<sup>st</sup> journal entry

Each M/W/F – Journal entries , until design and testing days, then everyday

TBA – design and testing days

TBA – Launch day

TBA – Google website report due.