

# Physics Labs

Labs are due no later than one week after last class day of lab. Feedback is based on accuracy. Grade is based on completion.

- Title (Provided)
- Objective (Provided)
- Diagram(s) of setup/procedure
- Data (tables); minimum\* of 5 data points consisting of trials

# Physics Labs

- Graph(s)
  - use to show relationships between variables
  - General shape of data: line, curve, none
  - Best fit of shape; determine slope if linear
- Calculations – must show work for one, record all results
- Written Discussion
  - What, why, how
  - Results: “answer” to objective using data, calculations, and graphs to support
  - Experimental error: procedural difficulties, “human error”?, never calculations

# Unit 2: Vectors and Projectiles labs

1. Target Practice
2. Virtual Projectile

# Lab: Target Practice

August 31

- Obj: Determine the landing spot of a marble launched from the Marble Launcher, based only on the launch speed and height above the ground.
- Calculations: Launch speed, time in air, horizontal range.
- The discussion should include: Any issues if you missed the target or just a few words to gloat if you hit the target on the first shot.

# Lab: Virtual Projectile

Due September 6

- Complete the provided lab sheet using the online projectile simulation.
- No further discussion required.
- Make note of the how the various launch angles relate to the projectile range.