**Rocket Lab**

**Purpose** - The purpose of this lab is to construct and launch a model rocket. In addition, we will learn how Newton's laws relate to model rockets and how to calculate the altitude and velocity of our rocket.

**Procedure** - Explain how you constructed your model rocket. Include the materials used and the major parts of the rocket. Also, describe how the altitude and velocity were calculated.

**Design** - Include a scale drawing of your rocket. Identify any design features that improve the performance of your rocket. Identify any features that you think may cause your rocket to have flight problems.

**Calculations** - Include data tables and calculations for altitude and velocity.

**Conclusion** - Discuss the performance of your rocket, its altitude, its speed, the engine used, its stability and your craftsmanship.

**Questions -**

1. Explain Newton's three laws and how each law applies to model rockets.

2. List and discuss three safety precautions we took prior to launching the rocket.

3. What modifications to the design would you recommend for next year? Explain why.