

## **Projectile Motion Lab: Final Analysis**

### **Challenge and Givens:**

- Explain the challenge and materials given or used for the lab

### **Procedure and Data:**

- Take some time to copy notes made in class into your lab book
- Make sure the charts and tables have appropriate units
- Make notes as to what is done in your calculations and why
- Include at least one complete sample calculation for a hoop.
- Consider drawing a quick sketch as well

\*Spend some time here since this part encompasses the majority of the challenge.

### **Error Analysis:**

- Comment on the sources of error during the hanging of the hoops as well as during the launch of the cannon.
- Did the ball miss any of the hoops?
- Consider your equipment, how might your equipment have caused error?
- What could be done to avoid or reduce these errors in the future?

### **Analysis:**

- Trends in your experiment: Any trends in the during the ball's passage through the hoops?
- How did the launch angle affect the trajectory for each group?

### **Conclusion:**

- Was the challenge completed successfully? Utilize your data during your discussion of this.
- What might be a real-life application of this lab and calculations?

### **Works Cited:**

- If necessary