**Introduction to Physics Lab**

**Purpose:**

The purpose of this lab is to gain experience working with data typical of a physics lab, as well as organizing and interpreting laboratory data.

**Procedure:**

1. Using the provided inclined plane, set the angle of the plane to 60 degrees.
2. You are going to roll a golf ball down the inclined plane starting at different distances from the end of the plane.
3. Starting with 20cm as our first distance of 20 cm, release the golf ball and time how long it takes to get to the end of the plane.
4. Complete nine more trials recording your distances (different ones each time) and times. Make sure your trials cover as much distance as possible.
5. Using graph paper, create a data table to show the data that you collected.
6. Create a graph of your data.

**Questions:**

1. What is a best fit graph?
2. What type of best fit line did you use on your graph?
3. What are 2 things you can tell about the slope of the line on your graph?
4. What does the line on your graph represent?