

Pendulum Labs 2014

All Labs must be typed in Microsoft Word on a single sheet of paper and include the following sections:

Problem:

State the problem in the form of a question.

Hypothesis:

State what you think the results of the experiment will be.

Materials:

List the materials used during the experiment. (Bullets with 2 columns?) Include a photograph of the experimental apparatus.

Procedure:

Write a detailed step by step procedure for the experiment. The procedure should be a numbered list and should be indented.

Observations:

Include a data table with all of the trials and averages. Include the following graphs in the labs.

Lab #1 - Mass of Bob vs. Period of Pendulum

Lab #2 - Displacement Angle vs. Period of Pendulum

Lab #3 - Length of String vs. Period of Pendulum

Graphs and data tables are constructed in Microsoft Excel and should then be copied and pasted into your Word document. The graphs should be XY (scatter) graphs with points connected with smooth curves. Make sure you label the graphs and axis using step 3 of the chart wizard. The graph should not include a legend. Most of the axis should be rescaled by double clicking on the axis after the graph has been drawn. You will need to change the maximum and minimum values to show your data appropriately.

Conclusion:

State the result of the experiment and describe if your hypothesis was confirmed or disproved by the experimental results.