

Compound Pendulum

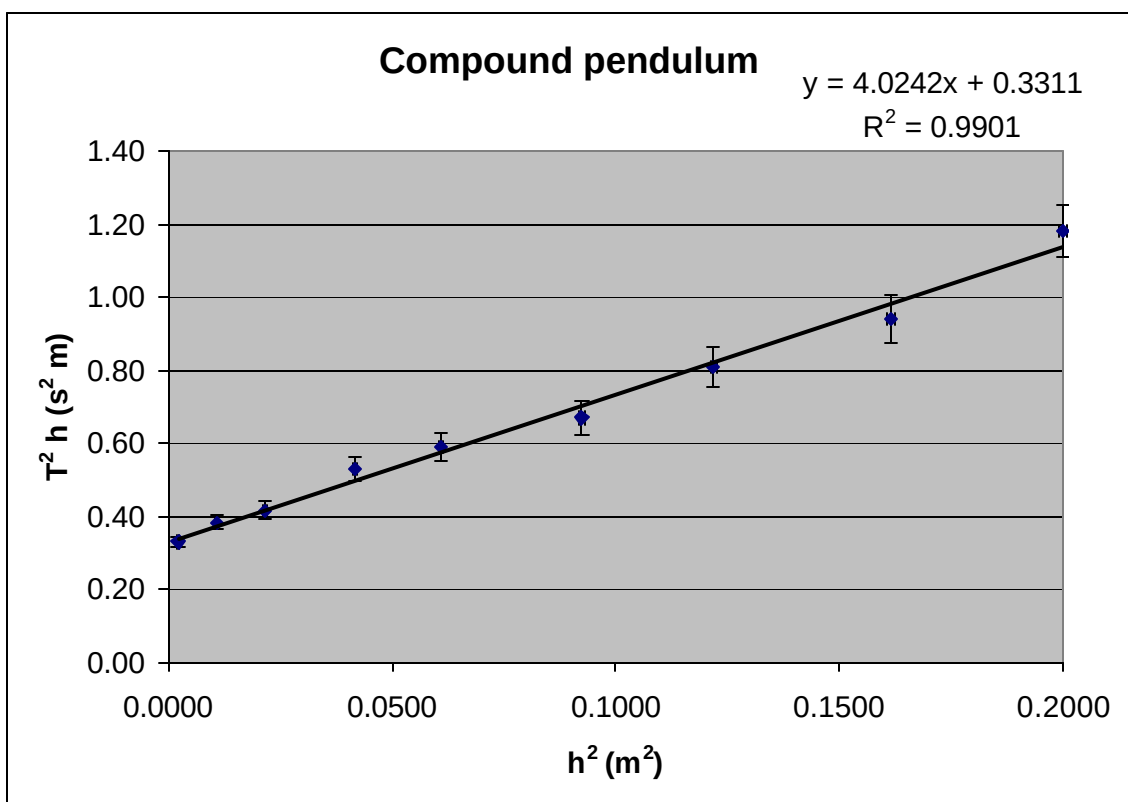
This is a simple exercise to get you to produce a well labelled graph of the kind you will be expected to do for your laboratory write-ups.

Using the data given in the spreadsheet '[comp_pendtask.xls](#)', produce an XY (scatter) plot using T^2h ($s^2 m$) values for the y-axis and h^2 (m^2) values for the x-axis.

Add error bars to the plot using data in column D for errors in T^2h ($s^2 m$). (You may use the data in column B for errors in h^2 if you think it appropriate).

Show a trend line (line of best fit) on the graph and display its equation.

Label the axis including the units. To do this you will need to insert superscripts into the axes' labels. (Excel is more limited in this than WORD.) Type all the text of the axis label including superscript(subscript) characters. Then select the character you wish to be a superscript (subscript), followed by the menus **Format/Select Axis Title/Font/** and tick the **Superscript** box. When completed the plot should be similar to that shown below.



From now on, all plots should have suitably labelled axes and Title and, where appropriate, a legend when more than one quantity is plotted on the same chart.

Save your spreadsheet as "your username"-comp-pend_1.xls.