

Prelab: Experiment #3 – The Simple Pendulum

Read Experiment #3 and find the equations used in your graph.

What will be plotted on the y-axis?

What will be plotted on the x-axis?

What is the algebraic expression for the slope?

What is the algebraic expression of the y-intercept?

The length L of a pendulum is 1.50 ± 0.01 cm. Find \sqrt{L} .
(1.2247 ± 0.0041)

The graph for this lab has a slope of 2.15 ± 0.11 s/m^{1/2}. What value of g would you get from this?
($g_{\text{exp}} = 8.54 \pm 0.87$)

Note, you will not be allowed into the lab until you show that you have done the pre-lab and have properly prepared the introductory portion (Title, Goal, Theory Summary, and Uncertainty Derivations) of the lab in your notebook.

No extra lab time will be allowed for the time you miss because you are unprepared.