

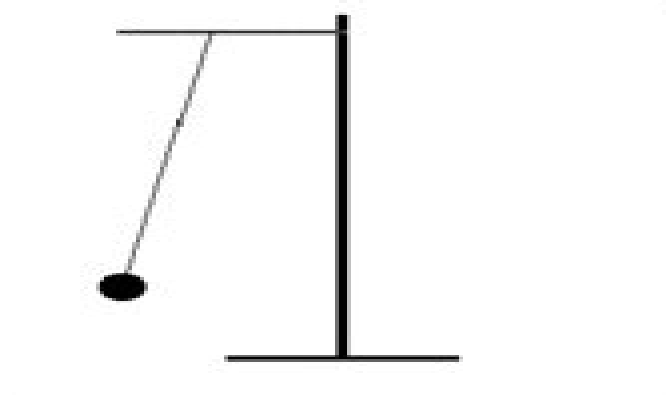
Pendulum Lab

(Period vs Length)

Purpose: Using a simple pendulum the purpose of this lab experiment is to find if the period of oscillation is dependent to its length, and how the gravitation acceleration effects the period at different lengths. The results are then compared to the true value of gravitation acceleration to show the accuracy of the experiment.

Apparatus: For this investigation the equipment used is as listed:

Tall ring stand
String/spring holder
String
Bob
Meter stick
Protractor
Computer with
Logger Pro
Timer



Independent variable: is the Length

Dependent variable: is the period of oscillation.

Procedure:

Period vs Length

1. Set up a free swinging pendulum using the string, bob, pendulum holder and ring stand. The string needs to be adjustable to lengths of 10 cm to 100 cm.
2. Start with a length of 10 cm and pull to an angle of your choosing using a protractor (always use the same angle for every trial), and release the pendulum at the same time you will be using the timer to measure the time of five oscillations. Enter you data in the table, and repeat for two more times.
3. Now set the length to 100 cm and repeat step two.
4. Continue to measure at four different lengths of your choice and repeat the process of step two for each new length.

Lab Report Investigating A Simple Pendulum

Daniela Niemeyer



Lab Report Investigating A Simple Pendulum:

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