

# Pendulum Lab Report

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January 5, 2010

## Introduction

We attempted to determine the effect of variation in the amplitude, mass, and length on the period of a pendulum.

## Procedure

We affixed a piece of string to a pipe on the ceiling, affixed masses to it at different lengths, pulled out the pendulum to differing amplitudes, then let go and timed the pendulum for five full periods (and subsequently divided the result to garner the time for a single period).

## Conclusion

We determined that the mass and amplitude had either a non-existent or negligible affect on the period, whereas the length had a direct affect. Due to the location of our test (about 2-3 metres above the ground) we could not get incredibly accurate results for the amplitude, and we could have improved results with better equipment in all categories. Stronger string would have allowed us to vary the mass and amplitude much greater, which would have been able to determine exactly how much of an affect they have on the period, be it minuscule or non-existent (or perhaps profound, if our data was indeed that faulty).