

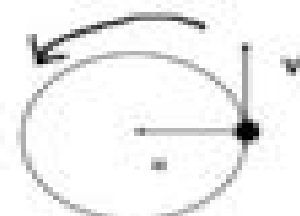
Centripetal Acceleration and Tension Lab

Purpose:

1. To study the nature of Centripetal Force
2. To measure the relationship between Centripetal Force, mass, and velocity

Introduction

An object moving with a changing speed in the same direction is undergoing acceleration. If an object moves with a constant speed but is changing direction, it is also undergoing acceleration. Both types of accelerations require a force. For an object traveling in a circle, change in direction is called centripetal acceleration, and the force producing it is called centripetal force. The centripetal force and centripetal acceleration are always directed towards the middle, while the velocity is always directed tangential to its position, and relative to the direction it is spinning (clockwise or counterclockwise).



Consider the figure to the right. Mass m_1 is traveling in uniform circular motion with radius r , at a constant tangential speed of v .



Because the mass is constantly changing direction it is subject to centripetal acceleration given by the equation:

$$a_c = \frac{v^2}{r}$$

where r is the radial distance from the object undergoing centripetal motion and v is the tangential velocity of the object. The force causing the centripetal acceleration, the centripetal force (F_c), must obey Newton's Second Law:

$$F_c = ma_c = m\left(\frac{v^2}{r}\right)$$

In our experiment, mass will be the mass of a washer moving at a constant tangential speed of v at the end of a piece of string with length r . We will use this to measure the centripetal force, to calculate the maximum Tension in the string.

Materials

String, washers, Triple Beam Balance, timers, scissors

Procedure

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**Charles Alpheus Bennett, William
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