

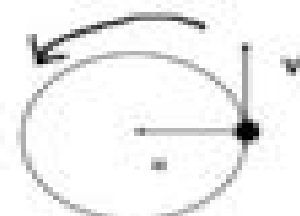
Centripetal Acceleration and Tension Lab

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 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

Regents Physics Lab Manual

**Thirumalaisamy P.
Velavancorresponding**



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Science Educator's Guide to Laboratory Assessment Rodney L. Doran, 2002 The book opens with an up to date discussion of assessment theory research and uses Then comes a wealth of sample assessment activities in biology chemistry physics and Earth science Keyed to the National Science Education Standards the activities include reproducible task sheets and scoring rubrics All are ideal for helping students reflect on their own learning during science lab *Biennial Report of the Board of Regents to the Governor* University of Nebraska (Lincoln campus). Board of Regents, 1893 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1958 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December **Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office, 1968 Catalog of Copyright Entries. Part 1. [B] Group 2. Pamphlets, Etc. New Series Library of Congress. Copyright Office, 1935 The Cumulative Book Index , 1967 A world list of books in the English language **Catalogue of Copyright Entries** , 1928 **Catalog of Copyright Entries. New Series** Library of Congress. Copyright Office, 1938 **Christian Home Educators' Curriculum Manual** Cathy Duffy, 1992 **My Years in the Early Peace Corps: Nigeria, 1964-1965** Sonja Krause Goodwin, 2021-09-17 In this book Sonja Krause Goodwin recounts her experience joining the Peace Corps in 1964 and describes the training she underwent to teach in Nigeria at Columbia Teachers College in New York City Goodwin tells readers about her service as a University teacher in physics while also serving as head of the Physics Department at Lagos University in Nigeria She also describes her vacation travels during that time mostly in Nigeria including an attempt to climb Mt Cameroon She writes about her interactions with her students her fellow University teachers and other University employees her fellow Peace Corps volunteers and other expatriates and Nigerians whom she met under during her travels Goodwin also delves into the politically motivated university crisis that led to the exodus from the university and Nigeria of almost all the expatriate teaching staff of the university including the Peace Corps volunteers She also discusses some of her work for the West African Examinations Council and the Aptitude Testing Unit in Lagos while waiting to be sent to another assignment for her second year in the Peace Corps **The Science Teachers Bulletin** , 1943 **Bulletin - University Number** Syracuse University, 1904 **Catalog of Copyright Entries** Library of Congress. Copyright Office, 1923 *Biennial Report of the Board of Regents to the Governor* , 1911 **The United States Catalog** Mary Burnham, Carol Hurd, 1928 **Resources in Education** , 1998 Who's who in America John W. Leonard, Albert Nelson Marquis, 1928 Vols 28 30 accompanied by separately published parts with title Indices and necrology **Manual Training Magazine** Charles Alpheus Bennett, William Thomas Bawden, 1921 Manual Training Magazine , 1921 **El-Hi Textbooks in Print** , 1984

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