

LAB 5: Uniform Circular Motion

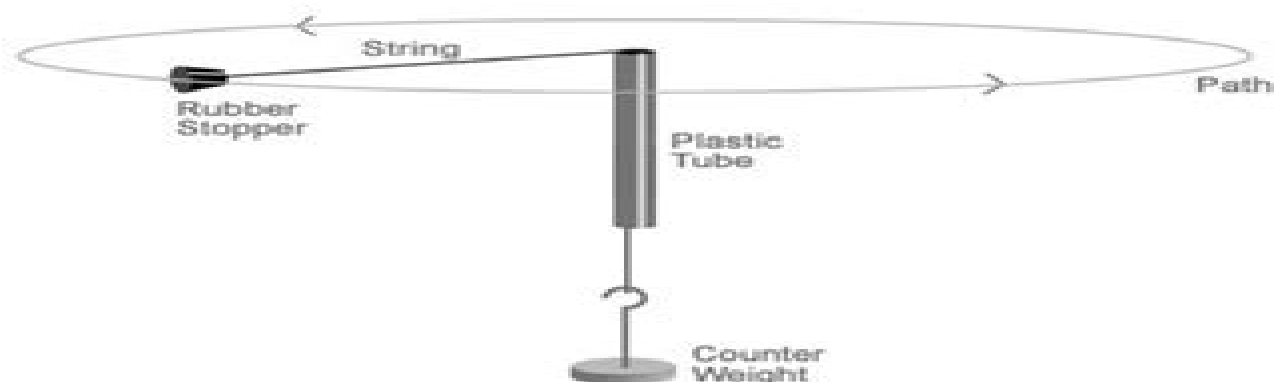
You will need a few formulas from Lab 1 to analyze the data in this lab. Your report should have answers to questions 1 - 13 below.

Review Ch. 6 Sec. 1-3 (and Ch. 10 Sec. 5 for question 14) of the OpenStax textbook for this lab.

According to Newton's first law, objects in motion tend to move along a straight line unless acted on by a force. In order to change the magnitude or direction of velocity, a force must be applied. The force needed to keep an object moving in a circle is called the centripetal force. A centripetal force gives rise to a centripetal acceleration. If the magnitude of centripetal force is constant, the magnitude of centripetal acceleration will be constant as well.

The centripetal acceleration a_c is related to the speed of an object moving in a circle as $a_c = v^2 / r$, where v is the speed and r the radius of the circle.

In this lab, a mass hanging from a string (the counter weight) supplies a constant centripetal force needed to keep a smaller mass (the rubber stopper) going in a circle at a constant speed v . Your goal is to use the data collected in the experiment to verify the above expression for the centripetal acceleration ($a_c = v^2 / r$).



Let M be the mass of the counter weight and m the mass of the rubber stopper. Newton's 2nd law for the stopper is

$$Mg = ma_c$$

- 1) Draw a free body diagram for the system (the stopper, the string, and the counter weight). Justify the relation given above (neglect the fact that the string keeping the stopper on the circular path is not exactly horizontal).
- 2) For an object on a circular path, which direction does the centripetal force vector point?
- 3) For an object on a circular path, which direction does the centripetal acceleration vector point?

Circular Motion Lab Answers

Brielle Morgan



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Table of Contents Circular Motion Lab Answers

1. Understanding the eBook Circular Motion Lab Answers
 - The Rise of Digital Reading Circular Motion Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Circular Motion Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Circular Motion Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Circular Motion Lab Answers

- Personalized Recommendations
 - Circular Motion Lab Answers User Reviews and Ratings
 - Circular Motion Lab Answers and Bestseller Lists
5. Accessing Circular Motion Lab Answers Free and Paid eBooks
 - Circular Motion Lab Answers Public Domain eBooks
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 - Circular Motion Lab Answers Budget-Friendly Options
 6. Navigating Circular Motion Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Circular Motion Lab Answers Compatibility with Devices
 - Circular Motion Lab Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Circular Motion Lab Answers
 - Highlighting and Note-Taking Circular Motion Lab Answers
 - Interactive Elements Circular Motion Lab Answers
 8. Staying Engaged with Circular Motion Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Circular Motion Lab Answers
 9. Balancing eBooks and Physical Books Circular Motion Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Circular Motion Lab Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Circular Motion Lab Answers
 - Setting Reading Goals Circular Motion Lab Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Circular Motion Lab Answers

- Fact-Checking eBook Content of Circular Motion Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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