

Projectile motion



Names: _____

COMPETENCE 1. INQUIRES USING SCIENTIFIC METHODS TO BUILD KNOWLEDGE

You will investigate the two dimensional motion of a projectile. The projectile is a small marble. Your hand-made toy catapult launches the marble into the air. With the help of a camera, you will capture the motion of the ball on film. The total flight time, the angle θ and the maximum horizontal distance are the "raw data" of your experiment.

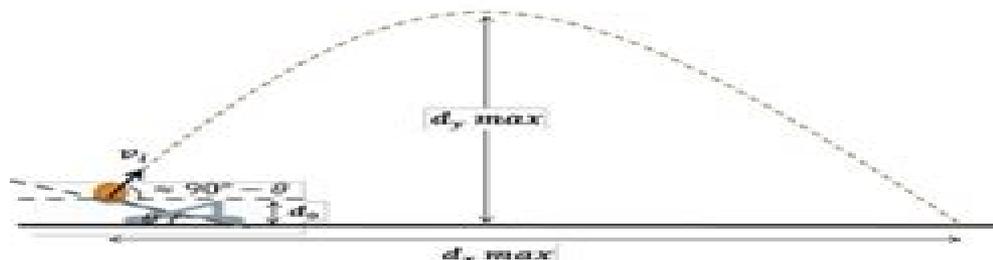


Figure 1. Experimental setup.

To simplify the work, assume that the ball is thrown very close to the floor ($d_0 \approx 0$). The acceleration of gravity only affects the vertical axis ($g_y = -9.8 \text{ m/s}^2$).

OBJECTIVE:

Determine the x and y components of the initial velocity (v_{ix} and v_{iy}) and the maximum height $d_{y, \text{max}}$ of the projectile motion.

DATA ACQUISITION:

Step 1. Setup your catapult according to the experimental setup (See Figure 1).

Step 2. Prepare a camera and a timer to record the motion. Are you ready? Before you throw the ball, measure the firing angle θ . Synchronize the launching with your timer counting or video recording.

Projectile Motion Lab Report Answers And Calculations

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Applied Biomechanics Lab Manual John C. Garner, Charles Allen, Adam C. Knight, Harish Chander, 2022-07-12 Applied Biomechanics Laboratory Manual offers 13 easy to follow experiential based learning labs offering students conceptual understanding of biomechanics to practical applications

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Table of Contents Projectile Motion Lab Report Answers And Calculations

1. Understanding the eBook Projectile Motion Lab Report Answers And Calculations
 - The Rise of Digital Reading Projectile Motion Lab Report Answers And Calculations
 - Advantages of eBooks Over Traditional Books
2. Identifying Projectile Motion Lab Report Answers And Calculations
 - 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 Projectile Motion Lab Report Answers And Calculations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Projectile Motion Lab Report Answers And Calculations
 - Personalized Recommendations
 - Projectile Motion Lab Report Answers And Calculations User Reviews and Ratings
 - Projectile Motion Lab Report Answers And Calculations and Bestseller Lists
5. Accessing Projectile Motion Lab Report Answers And Calculations Free and Paid eBooks

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