

## 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  $\theta$  and the maximum horizontal distance are the "raw data" of your experiment.

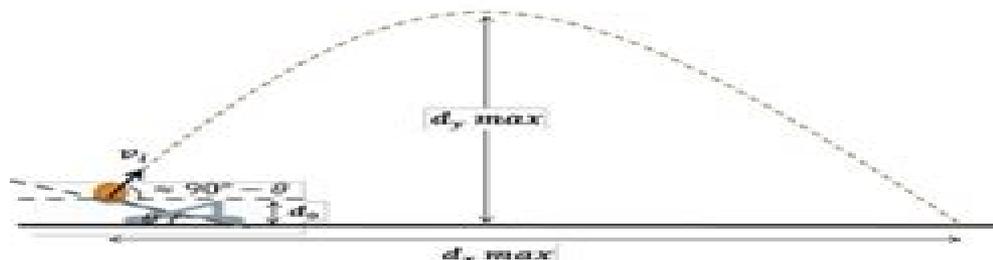


Figure 1. Experimental setup.

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  $\theta$ . Synchronize the launching with your timer counting or video recording.

# Projectile Motion Lab Report Answers And Calculations

**Ying-Ying Zheng**



## **Projectile Motion Lab Report Answers And Calculations:**

**Applied Biomechanics Lab Manual** John C. Garner, Charles Allen, Harish Chander, Adam C. Knight, 2022-07-12 Applied Biomechanics Laboratory Manual With HKPropel Online Video provides guided opportunities for students to connect their conceptual understanding of biomechanics to practical applications As readers progress through 13 easy to follow experiential based learning labs they will gain insight into how these mechanical principles relate to areas such as sport performance athletic injury ergonomics and rehabilitation This manual engages students with full color images as well as visual aids It is an ideal primary or supplemental text for any biomechanics and kinesiology curriculum Applied Biomechanics Laboratory Manual comprises 13 laboratory chapters that offer more than 30 lab activities Each laboratory chapter provides at least one complete lesson including objectives key terms and introductory content that set the stage for learning Each lab activity is broken down into step by step procedures providing guidance for those new to lab settings so that they may complete the process with confidence Related online learning tools delivered through HKPropel include digital versions of the forms found in the book as well as online video clips that simulate the experience of performing many of the lab activities The text is organized in a logical progression that builds on the knowledge students acquire as they advance Written by instructors with a variety of teaching experiences in the field of biomechanics the multiple lab activities are designed so they can be completed in any educational setting Each lab activity begins with a recommended equipment list to facilitate lesson preparation A list of recommended data analysis software tools is provided in some equipment lists For educational settings where no data analysis software is available data is provided so students can complete the laboratory reports for the lab activity Applied Biomechanics Laboratory Manual gives students an opportunity to observe the principles of biomechanics in action The manual serves as a high quality resource for students to learn how to perform basic laboratory testing procedures used in assessing human performance and body mechanics Note A code for accessing HKPropel is not included with this ebook

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**Physics Laboratory Experiments** Jerry D. Wilson, 1994

Government Reports Announcements & Index, 1988     Government Reports Announcements & Index, 1986     Calculus Roberto Smith, Schor, (Schor) Schor, 1995-01-02     **U.S. Government Research & Development Reports**, 1970

**University of Michigan Physics Laboratory Experiments** Michael J. Longo, 1991     Instructor's Guide to Accompany College Mathematics Through Applications Peterson, Wagner, 1999-02     Comparative Study Using Technology Vs Traditional Learning in High School Conceptual Physics David Kim McCreight, 1999     **An Introductory Guide to EC Competition Law and Practice** Valentine Korah, 1994     **The Software Encyclopedia 2001**, 2001     *Physics Briefs*, 1994     *Bibliography of Scientific and Industrial Reports*, 1970     **Government Reports Announcements**, 1975

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