

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.

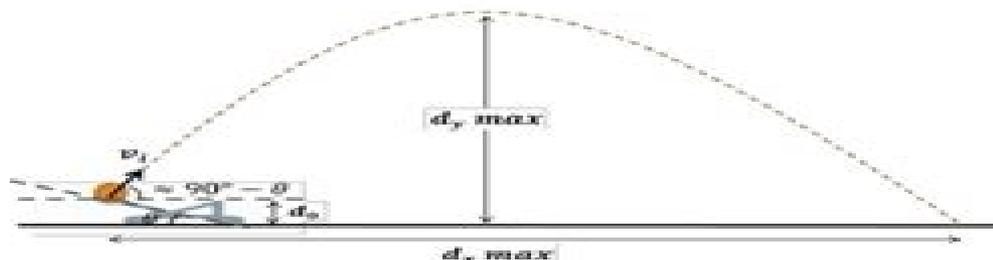


Figure 1. Experimental setup.

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

Shasha Hu



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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 Scientific and Technical Aerospace Reports, 1994-06

Mathematica Lab Manual for Calculus Roberto Smith, 1996 **High School Physics** Cynthia R. Hynd, 1995 **Science and Mathematics Lab Ma**, 2002-05 Includes 30 labs for students to use to connect mathematics to science concepts

Physics Laboratory Experiments Jerry D. Wilson, 1994 **Government Reports Announcements & Index**, 1988

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Comparative Study Using Technology Vs Traditional Learning in High School Conceptual Physics David Kim McCreight, 1999 **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 *An Introductory Guide to EC Competition Law and Practice* Valentine Korah, 1994 **Bibliography of Scientific and Industrial Reports**, 1946 *The Software Encyclopedia 2001*, 2001

Physics Briefs, 1994 *Government Reports Announcements*, 1975 Bulletin of the National Association of Secondary-School Principals, 1970 **The Bulletin of the National Association of Secondary School Principals** National Association of Secondary School Principals (U.S.), 1970

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