

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.

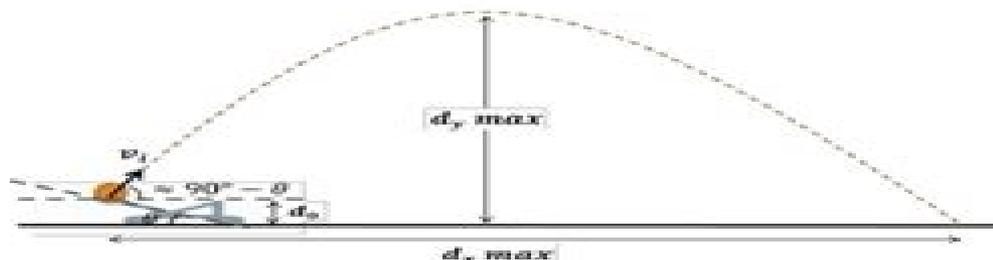


Figure 1. Experimental setup.

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 $d_y \max$ 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

SJ Ball



Projectile Motion Lab Report Answers And Calculations:

The Enigmatic Realm of **Projectile Motion Lab Report Answers And Calculations**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Projectile Motion Lab Report Answers And Calculations** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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