

## 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.

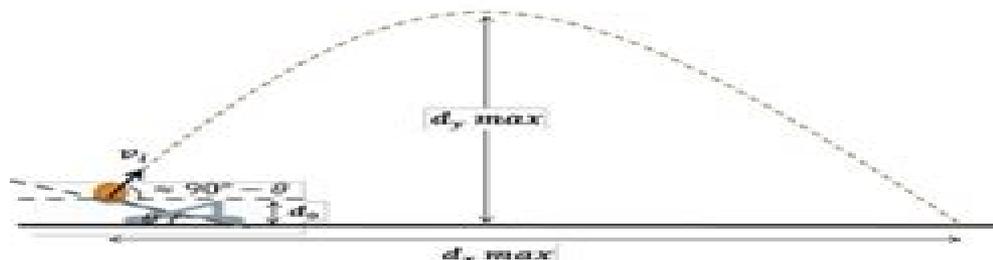


Figure 1. Experimental setup.

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

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