

# Projectile Motion Lab Answers

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## Experiment 2 – Free Fall and Projectile Motion

Blast a car out of a cannon, and challenge yourself to hit a target! Learn about projectile motion by firing various objects. Set parameters such as angle, initial speed, and mass. Explore vector representations, and add air resistance to investigate the factors that influence drag.

*Physics Report PROJECTILE MOTION | Velocity | Acceleration*

You just discovered a rule. State it here by circling the letter of the right answer:

**MULTIPLE CHOICE:** ^When you shoot a projectile at the same initial speed from angles that are a. complementary b. obtuse c. supplementary d. acute ...the projectile will go the same horizontal distance range.

### Projectile Motion Lab.docx - Google Docs

**THEORY** Projectile Motion Projectile is defined as, any body thrown with some initial velocity, which is then allowed to move under the action of gravity alone, without being propelled by any engine or fuel. The path followed by a projectile is called its trajectory.

Projectile Motion Lab Answers

Projectile motion occurs when an object in a two dimensional plane experiences motion only due to gravity.

Kinematic equations can be used to describe the components of projectile motion. This...

*(DOC) Projectile Motion Lab report | Ana Ortega - Academia.edu*

Projectile motion is a special case of uniformly accelerated motion in 2 dimensions. The only acceleration is the acceleration due to gravity with a magnitude of  $9.80 \text{ m/s}^2$  directed down toward the center of the Earth. In projectile motion there is no acceleration in the horizontal direction.

[AP Physics PhET Projectile Motion Lab - PhET Contribution](#)

on projectile motion later.) . In the velocity box type in an initial velocity of  $50 \text{ m/s}$ . . In the angle box type in  $45$

degrees. . In the mass box type in  $1 \text{ kilogram}$ . Procedure A: What is the effect of mass on the motion of a projectile? 1. Press the "fire" button to launch your first projectile. 2.

### Projectile Motion Quizzes & Trivia - ProProfs

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*Virtual Lab on Projectile Motion - Physics Playground*

[www.physics.drexel.edu](http://www.physics.drexel.edu)

### AP Physics PhET Projectile Motion Lab - PhET Contribution

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[www.unit5.org](http://www.unit5.org)

Photogate 2 registers the ball right before it is launched into projectile motion, and the time-of-flight accessory registers the time the ball lands. Column 3-Velocity in Gate- is a launched velocity, or, in other words, the initial horizontal velocity ( $v_x$ ) of the projectile object.

[Projectile Motion Lab - Determine the initial velocity of ...](#)

The purpose of this lab is to study projectile motion of an object that is launched horizontally and drops a certain height before it hits the ground.

*PHY 133 Lab 3 - Projectile Motion [Stony Brook Physics ...*

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*Projectile Motion - Kinematics | Air Resistance ...*

The projectile motion experiment applies a working knowledge of kinematics for motion in two dimensional space. Students will utilize formulated equations to determine theoretical values of a projectile's position along a trajectory.

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Projectile Motion - physics.mercer.edu

Projectile Motion Lab - Determine the initial velocity of a ball launched horizontally Predict and verify

*Projectile Motion - PLAB223: Lab Report #1*

Physics: Projectile Motion (Intro) PhETSimulations Lab Introduction: Name: Projectile Motion Projectiles travel with two components of motion, X any Y. The acceleration and velocity in the Y direction is independent of the acceleration (if any) and velocity in the X ... The answers to #2 and #3 are due to the fact that gravity acts n/y in the ...

*Phet Projectile Motion Lab: Lab Answers | SchoolWorkHelper*

Kinematics Lab Procedure 1) Gather 3 meter sticks, a launcher, a ball, a ram rod, 2 clamps, a long sheet of paper, some carbon paper, a stopwatch and a buggy 2) Clamp the launcher to the table, set it to 0 degrees off of the horizontal, and measure the height of the launcher with a meter stick

**Lab Procedure: Projectile Motion Lab: AP Physics B**

A comprehensive database of projectile motion quizzes online, test your knowledge with projectile motion quiz questions. Our online projectile motion trivia quizzes can be adapted to suit your requirements for taking some of the top projectile motion quizzes.

The lab fulfilled its purpose well because it displayed that various speeds do not affect the time it takes for a projectile to reach the ground. The initial speed and the time have no relationship whatsoever. Only vertical motion affects the time for a projectile.

*www.physics.drexel.edu*

Introduction - This lab entertained the idea of projectile motion and how, at different maximum heights and velocities, an object can fly shorter or farther distances. The point of the lab was to find the initial velocity of the projectile launched, as well as the final distance it reached.

Projectile Motion Name: ANS. KEY Virtual Lab

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