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Projectile Motion  
Lab Answers

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## **Projectile Motion Lab Answers**

Introduction This lab will answer whether or not initial speed affects the time that a projectile is in the air. Also, it will be determined if there is a

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## **Phet Projectile Motion Lab: Lab Answers | SchoolWorkHelper**

LAB 3: Projectile Motion

You will need a few formulas from Lab 1 to analyze the data in this lab. Your report should have answers to questions 1 - 20 below.

Part one: Zero launch angle  
A spring gun mounted on a table fires a metal ball. As the ball lands on a sheet of paper covered

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with carbon paper, it leaves a mark (see the picture below).

## **Solved: LAB 3: Projectile Motion You Will Need A Few Formu ...**

Question: Projectile Motion Lab Activity  
Projectile Motion Lab Activity In This Lab Activity, You Are Given Data Corresponding To Three Projectile Motion Setups, Each Using The Same Spring Gun And

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Projectile. The Only  
Difference Between  
The Setups Is The  
Launch Angle:  
Horizontal, Vertical, Or  
At An Angle Of  $35^\circ$   
Above Horizontal. For  
Each Setup, Your  
Group First ...

## **Projectile Motion Lab Activity Projectile Motion L**

...

PHY 2091-06  
experiment performed:  
Sep 13, 2006 report

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submitted: Sep 20,  
2006 Lab Partner: Chris  
Hubacek Instructor:  
Klaus Dehmelt  
Introduction The  
purpose of this  
experiment is to  
explore the  
mathematics behind  
projectile motion.

## **Lab Report #4 - Projectile Motion**

View Lab Report - Lab  
4 Projectile Motion.pdf  
from PHY 201 at  
Portland Community

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College. Projectile Motion Purpose: To explore and predict the motion of projectiles in two dimensions using ... Round all angles to the nearest degree when reporting answers. Round lengths and speeds to two significant figures when reporting answers. Part A: No ...

**Lab 4 Projectile Motion.pdf - Projectile Motion**  
*Page 8/24*



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## **Purpose To ...**

This lab increased understanding of projectile motion. Introduction. 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 allows us to analyze the motion.

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## **Projectile Motion Lab.docx - Google Docs**

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

## **Projectile Motion Lab - Determine the initial velocity of ...**

AP Physics PhET  
Projectile Motion Lab:  
Description Perfect for  
AP Physics C:

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Mechanics and AP Physics B1. I just re-wrote this and it's solid. I also included an answer key as several people have asked for it. Duration 120 minutes: Answers Included Yes: Language English: Keywords

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

The theory was formed

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based on prior knowledge on the physics of projectile motion. The experiment was conducted with great caution in attempt to achieve the most accurate ... Projectile Motion Lab Report  
Author: Yadesh Prashad, Timothy Yang, Saad Saleem, Mai Wageh, Thanoja Gnanatheevam ...

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**Lab Report - The A-  
Team - Home**

Title Authors Level

Type Subject A

Projectile Motion-

Introduction (Inquiry

Based) Trish Loeblein

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

Lab 2 - Projectile

Motion Name: \_\_\_\_\_

Link for online lab:

OBJECTIVES: Draw  
motion diagrams for a  
projectile launched at

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an angle Investigate how range, maximum height and flight time of a projectile changes with the launch angle Determine gravitational field strength at a location by using a projectile and performing curve fitting on linearized data PROCEDURE: Click on the Vectors window.

**Lab 2 - Projectile Motion.docx - Lab 2**  
**\u2013 Projectile ...**

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Projectile Motion The purpose of this lab is to study the properties of projectile motion. From the motion of a steel ball projected horizontally, the initial velocity of the ball can be determined from the measured range. For a given initial velocity, the projectile range will be measured for various initial angles,

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## **Boston University**

The Galileo version describes projectile motion as a combination of horizontal motion with a constant velocity, equal to the projectile initial horizontal velocity component, and vertical motion with constant acceleration and an initial velocity equal to the projectile's initial velocity component.



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## **Teacher Toolkits - Projectile Motion**

Method/Setup: For this projectile motion lab, we performed 4 different activities all involving the projectile launcher. The first activity was to get familiar with the launcher and to calibrate it correctly. We made sure the launcher was level along with the lab jacks and landing board.

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**Physics 111 - Lab  
Report 4 - PHYS 111  
- Iowa State -  
StuDocu**

Answer these questions. 1. What effect did increasing speed have on the distance the projectile travelled? 2. What effect did the cannon height have on the distance the projectile travelled? 3. Does the distance travelled change by about the same amount each

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time or by very different amounts each time? 4.

## **Name PHET Projectile-motion Lab**

Assuming the projectile is traveling rightward toward the barrier, you just need to check when the following conditions occur:  $P$  is the position of the projectile where  $P(1)$  is the  $x$  coordinate and  $P(2)$  is the  $y$  coordinate.

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```
barrierHit = P (1) >= x  
(0) && P (2) >= y (0)  
&& P (2) <= y (1);
```

## **projectile motion in matlab - MATLAB Answers - MATLAB Central**

Projectile motion ● If a point-like object is shot with a certain initial velocity  $v_0$  in a system with vertical downward gravitational acceleration,  $g$ , the kinematical equations for the position of the

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body are: ● No  
acceleration along the  
horizontal direction just  
motion with constant  
velocity

## **Experiment 2: Projectile motion and conservation of energy**

In Method B, the  
projectile motion of the  
ball is studied to  
determine its initial  
velocity. Applying  
conservation of  
momentum, we have

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$mV_A = (m + M)V_f$  just before and after the ball contacted the bob, where  $m$  is the mass of the ball and  $M$  is the mass of the bob, and  $V_A$  and  $V_B$  are the ball's speed just before and just after collision.

## **Ballistic Pendulum Experiment: Analysis**

Horizontal motion of projectile The speed in the horizontal direction is ' $v_x$ ' and this speed doesn't change. The

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equation which predicts the position at any time in the horizontal direction is simply, Vertical motion of projectile Because gravity has a downward pull, the vertical velocity changes constantly.

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ecf8427e.

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