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Mm/s Maximum height for case I t: 1. 75/2. 93=0. Sass
conclusion: For case one, we found out the horizontal range Of a
projectile motion is . We got the launch angle which makes the
range maximum is 45, and for this angle, Arena -1. Mm. Using
this numbers, we found out V-4. mm/s. Projectile Motion Lab
Report Theory

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Lab Report 3: Projectile Motion February 13, 2018 Introduction
The purpose of this experiment is to predict launch distances at
different angles using what is know about projectile motion.
Projectile motion is a predictable path traveled by an object that
is influenced only by the initial launch speed, launch angle, and
the acceleration due to gravity.

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Lab Report 3 - Projectile Motion - PHY 2048C - StuDocu

For example our data showed that 45 degrees will launch a projectile.88 meters. When the gun is adjusted to 30 degrees it shoots the projectile.75 metets, and when the gun is 60 degrees it shoots...

Lab Report 6, Projectile Motion, Physics Lab 1 - Google Docs

The purpose of this lab is to investigate the properties of projectile motion. The. initial velocity of a ball projected horizontally and also at an angle of. 20. can be. calculated from the acquired measurements of horizontal distances from the base of. the projectile launcher.

Projectile Motion Lab Report | Acceleration | Trajectory ...

The assignment was to create a projectile launcher to test if

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increasing the initial angle of an object (marble) would increase the total displacement of the launched object. The test involved launching the object and measuring the initial height, angle and the displacement of the object.

Projectile Motion Lab Report

The assignment was to create a projectile launcher to test if increasing the initial angle of an object (marble) would increase the total displacement of the launched object. The test involved launching the object and measuring the initial height, angle and the displacement of the object.

Projectile motion lab report - Docsity

Open the "Projectile1.ds" file. One shows the initial speed calculated from distance and time, and the other shows the projectile's time of flight2) Set the angle to 10, 20, 30, 45, 60, 70, and 80 degrees, push the projectile into the launcher and

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listen for three clicks.

Projectile Motion Lab Report - PHYS.1410 LPhysics I Lab

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Projectile Motion: Varying the Launch Angle In this part of the experiment, the range, maximum height, and total transit time will be calculated, and confirmed through experimentation. Notice, in the first exercise the ball was fired from zero degrees. The Projectile Motion Calculator displayed a

Projectile Motion - Physics Department

Purpose: The purpose of this lab is to investigate the

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mathematics of projectile motion using a marble launcher.

Background: The equation $R = V_0 \sin(2\theta) / g$ mathematically defines the range of a projectile given the known values of the launch angle & initial launch velocity.

Projectile Motion Lab - Scribd

Note the position on the floor or lab table (whichever you are using as the final vertical level of the projectile motion) directly under the center of this circle. (You could use a plumb line, though not the one that comes attached.) Measure h the distance from the bottom of the launch position to the bench/floor.

General Physics Lab: Projectile Motion

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

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determined from the measured range. For a given initial velocity, the projectile range will be measured for various initial angles,

Projectile Motion - Boston University

Whether it's the Saturn V with 7.6 million pounds of thrust or a tiny model launched from your backyard, projectile motion can be studied and understood by. It in their laboratory report as both an assumption and a source of uncertainty. The purpose of this lab was to measure the properties of projectile motion.

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Range of projectile motion For a projectile that is launched at an angle and returns to the same height, we can determine the range or distance it goes horizontally using a fairly simple equation. However, we will focus on the results of studying that equation rather than solving it here.

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Physics Report PROJECTILE MOTION | Projectiles | Force

Projectile Lab. For this lab you will be looking at how the initial conditions for the projectile's flight influence its time in the air and its horizontal distance traveled. Use the arrows at the bottom to adjust the speed, angle and height. Then estimate the landing location of the ball. Begin.

Projectile Lab

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.

Projectile Motion - PhET

The initial launch angle (0-90 degrees) of an object in projectile

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motion dictates the range, height, and time of flight of that object. Projectile motion is a form of motion where an object moves in a bilaterally symmetrical, parabolic path. The path that the object follows is called its trajectory.

3.3: Projectile Motion - Physics LibreTexts

Projectile Motion - PhET Interactive Simulations

Projectile Motion - PhET Interactive Simulations

Introduction. In this lab you will study the motion of a freely-falling projectile, namely a small plastic sphere. Projectile motion, for our purposes, is the motion of an object that has been launched and then is subject to only the force of gravity and the force of air friction. The Newtonian mechanics principles that you have been studying allow you to predict this type of motion quite well.

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