

PHet Lab #2 Projectile motion

http://phet.colorado.edu/sims/projectile-motion/projectile-motion_en.html



Do not answer the lettered questions (just think about them.) Record table and solve only the application ?s.

1. Click on the above link.
2. Try using some of the different objects in the pull down menu **without** air resistance.
3. Now try the different objects **with** air resistance
 - a. What does air resistance do to a projectile? Why?
 - b. Why does a bowling ball go farther than a golf ball even though a golf ball has a smaller drag?
 - c. Why does a human go so much farther than a Buick when they have the same drag coefficient?
4. Physics frictionless environment; so turn drag off. Move the target to 20 meters from cannon by pulling the "x" away from the tape measure and try to fire the golf ball with these parameters, record your results:

Angle (degrees)	75°	45°	15°	89.4°	9.3°
Initial Speed (m/sec)	20 m/sec	14 m/sec	18 m/sec	98 m/sec	24.8 m/sec
Hit or Miss					
Time in the air					
Vertex Height (m)					
Range (m)					

- e. Which angle requires the fastest speed in order to hit the target? Why?
- f. Which angle requires the slowest speed to hit the target? Why?
- g. How did the shots with the smallest angles go just as far as the shots that were in the air the longest?
- h. Why do the X's get closer together as you get to the top of the parabola?
- i. What happens to the speed of the golf ball as you get closer to the top of the parabola? Does the horizontal speed change or only the vertical speed?

APPLICATION PROBLEMS:

1. **CLIFF PROBLEM:** Pull the cannon up to 18 meters vertical. Place the target at 34 meters horizontal and level with ground. Solve for the V_r of a horizontal shot. Once you have calculated the range, you may use the computer. Plug in your solution and fire to see if you truly understand how to calculate this.

2. **DUDE PERFECT PROBLEM:** Pull the cannon down to level. Place the target at 34 meters horizontal and 34 meters vertical. Solve for the V_r and the angle required for firing the golfball through this elevated target. Once you have calculated the V_r and the angle, you may use the computer. Plug in your solution and fire to see if you truly understand how to calculate this.

Answer Key To Projectile Simulation Lab Activity

Albert A Gayle



Answer Key To Projectile Simulation Lab Activity:

This book delves into Answer Key To Projectile Simulation Lab Activity. Answer Key To Projectile Simulation Lab Activity is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Answer Key To Projectile Simulation Lab Activity, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answer Key To Projectile Simulation Lab Activity
 - Chapter 2: Essential Elements of Answer Key To Projectile Simulation Lab Activity
 - Chapter 3: Answer Key To Projectile Simulation Lab Activity in Everyday Life
 - Chapter 4: Answer Key To Projectile Simulation Lab Activity in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Answer Key To Projectile Simulation Lab Activity. The first chapter will explore what Answer Key To Projectile Simulation Lab Activity is, why Answer Key To Projectile Simulation Lab Activity is vital, and how to effectively learn about Answer Key To Projectile Simulation Lab Activity.
 3. In chapter 2, this book will delve into the foundational concepts of Answer Key To Projectile Simulation Lab Activity. The second chapter will elucidate the essential principles that need to be understood to grasp Answer Key To Projectile Simulation Lab Activity in its entirety.
 4. In chapter 3, the author will examine the practical applications of Answer Key To Projectile Simulation Lab Activity in daily life. This chapter will showcase real-world examples of how Answer Key To Projectile Simulation Lab Activity can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Answer Key To Projectile Simulation Lab Activity in specific contexts. This chapter will explore how Answer Key To Projectile Simulation Lab Activity is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Answer Key To Projectile Simulation Lab Activity. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Answer Key To Projectile Simulation Lab Activity.

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