

## PHet Lab #2 Projectile motion

[http://phet.colorado.edu/sims/projectile-motion/projectile-motion\\_en.html](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

**N Colangelo**



**Answer Key To Projectile Simulation Lab Activity:**

## Decoding **Answer Key To Projectile Simulation Lab Activity**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Answer Key To Projectile Simulation Lab Activity**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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