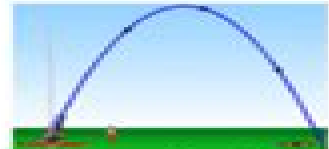


## PHet Lab #2 Projectile motion

[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

**M Woodhall**



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

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## **Table of Contents Answer Key To Projectile Simulation Lab Activity**

1. Understanding the eBook Answer Key To Projectile Simulation Lab Activity
  - The Rise of Digital Reading Answer Key To Projectile Simulation Lab Activity
  - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key To Projectile Simulation Lab Activity
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Answer Key To Projectile Simulation Lab Activity
  - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key To Projectile Simulation Lab Activity
  - Personalized Recommendations
  - Answer Key To Projectile Simulation Lab Activity User Reviews and Ratings

- Answer Key To Projectile Simulation Lab Activity and Bestseller Lists
- 5. Accessing Answer Key To Projectile Simulation Lab Activity Free and Paid eBooks
  - Answer Key To Projectile Simulation Lab Activity Public Domain eBooks
  - Answer Key To Projectile Simulation Lab Activity eBook Subscription Services
  - Answer Key To Projectile Simulation Lab Activity Budget-Friendly Options
- 6. Navigating Answer Key To Projectile Simulation Lab Activity eBook Formats
  - ePub, PDF, MOBI, and More
  - Answer Key To Projectile Simulation Lab Activity Compatibility with Devices
  - Answer Key To Projectile Simulation Lab Activity Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Answer Key To Projectile Simulation Lab Activity
  - Highlighting and Note-Taking Answer Key To Projectile Simulation Lab Activity
  - Interactive Elements Answer Key To Projectile Simulation Lab Activity
- 8. Staying Engaged with Answer Key To Projectile Simulation Lab Activity
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Answer Key To Projectile Simulation Lab Activity
- 9. Balancing eBooks and Physical Books Answer Key To Projectile Simulation Lab Activity
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Answer Key To Projectile Simulation Lab Activity
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Key To Projectile Simulation Lab Activity
  - Setting Reading Goals Answer Key To Projectile Simulation Lab Activity
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Key To Projectile Simulation Lab Activity
  - Fact-Checking eBook Content of Answer Key To Projectile Simulation Lab Activity
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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