

LAB #3 INVESTIGATING PROJECTILE MOTION

PHYS 1110 CONCEPTUAL PHYSICS

Instructor: _____
Results: _____
(90 pts max)

Name: _____
Date: 2/27/20

GETTING STARTED

- Open Google Chrome or other compatible browser and disable all browser pop-up blockers.
- Go to <https://phet.colorado.edu/en/simulation/legacy/projectile-motion>
- Click Play symbol "▶" and select "OK" in the pop-up dialog box.



OBJECTIVES

- Predict how varying conditions will effect the path of a projectile and explain your reasoning.
- Use the PhET simulation to confirm or disprove your predictions.
- Explain why your predictions were correct or incorrect.

DATA COLLECTION

1. Look at the "height" box at the top. What kinematics term does it actually stand for, and what point is it relative to? (Hint: shoot the cannon once and watch the number closely). Explain your reasoning.

It stands for displacement above initial point where the objects are fired.

2. Fire the projectile launcher straight upwards (angle = 90°) at 18 m/s. Using kinematics, determine:
 - a. the time it should take the projectile to reach maximum height

$\begin{matrix} +y \\ \updownarrow \\ -y \end{matrix}$
 $\downarrow a = -9.8 \text{ m/s}^2$
 $V_i = 18 \text{ m/s}$
 $t = ?$
 $V_f = 0$
 $a = ?$
 $V_f^2 = V_i^2 + 2ad$
 $V_f^2 = 0 = V_i^2 + 2ad$
 $\frac{-V_i^2}{2a} = d = \frac{-(18 \text{ m/s})^2}{2(-9.8 \text{ m/s}^2)} = 16.5 \text{ m}$
 $\frac{-V_i}{a} = t_{\text{up}} = \frac{-(18 \text{ m/s})}{-9.8 \text{ m/s}^2} = 1.84$
 $t_{\text{total}} = 2t_{\text{up}} = \boxed{3.7 \text{ s}}$

- b. the maximum height reached by the projectile

$\frac{-V_i^2}{2a} = d = \frac{-(18 \text{ m/s})^2}{2(-9.8 \text{ m/s}^2)} = 16.5 \text{ m}$

→ height above cannon's level

- c. Now, using the measuring tape, measure the actual height reached by the projectile (remember to measure from the little plus sign at the base of the cannon). Was your answer to (b) the same as this measurement? If it wasn't, check your math over and find your mistake.

height above ground = $16.5 \text{ m} + 1.2 \text{ m} = \boxed{17.7 \text{ m}}$

If the calculations + measurements were done correctly it should be the same.

Answer Key Motion Skills Lab

Jianjun Gao

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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Table of Contents Answer Key Motion Skills Lab

1. Understanding the eBook Answer Key Motion Skills Lab
 - The Rise of Digital Reading Answer Key Motion Skills Lab
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key Motion Skills Lab
 - 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 Motion Skills Lab
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key Motion Skills Lab
 - Personalized Recommendations
 - Answer Key Motion Skills Lab User Reviews and Ratings
 - Answer Key Motion Skills Lab and Bestseller Lists
5. Accessing Answer Key Motion Skills Lab Free and Paid eBooks
 - Answer Key Motion Skills Lab Public Domain eBooks
 - Answer Key Motion Skills Lab eBook Subscription Services
 - Answer Key Motion Skills Lab Budget-Friendly Options
6. Navigating Answer Key Motion Skills Lab eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key Motion Skills Lab Compatibility with Devices
 - Answer Key Motion Skills Lab Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key Motion Skills Lab
 - Highlighting and Note-Taking Answer Key Motion Skills Lab
 - Interactive Elements Answer Key Motion Skills Lab
8. Staying Engaged with Answer Key Motion Skills Lab

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Answer Key Motion Skills Lab
- 9. Balancing eBooks and Physical Books Answer Key Motion Skills Lab
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key Motion Skills Lab
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Key Motion Skills Lab
 - Setting Reading Goals Answer Key Motion Skills Lab
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Key Motion Skills Lab
 - Fact-Checking eBook Content of Answer Key Motion Skills Lab
 - 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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