

# Projectile Motion Review Key

- The acceleration due to gravity acts:
  - upward.
  - depending on the motion of the object.
  - downward.**
  - toward outer space.



Since the net force is downward, the resulting acceleration is as well.

- A bullet is fired at an angle of  $45^\circ$ . Neglecting air resistance, what is the direction of acceleration during the flight of the bullet? Draw a force diagram of the bullet in flight.

- Downward.**
- Dependent on the initial velocity.
- Upward.
- At a  $45^\circ$  angle.



Since the net force is downward, the resulting acceleration is as well.

- A golfer drives her golf ball from the tee down the fairway in a high arcing shot. When the ball is at the highest point of its flight

- the horizontal velocity is non-zero and the vertical velocity is zero.**

Since the only force acting on a projectile is the downward force of gravity, the horizontal net force is zero and therefore the horizontal acceleration is zero. Hence, the horizontal velocity is constant. At the highest point the ball is changing direction and therefore its vertical velocity is instantaneously zero.

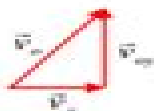
- In the first practicum the ball was shot horizontally. What was the initial vertical velocity ( $\vec{v}_y$ ) of the ball when it was shot?

- $0 \text{ m/s}$**

The initial velocity is completely horizontal.

- A soccer ball is kicked at a  $55^\circ$  angle with an initial velocity of  $8 \text{ m/s}$ . What is the vertical velocity of the ball as it hits the ground?

- $8 \text{ m/s}$
- $-8 \text{ m/s}$
- $-6.6 \text{ m/s}$**



$$\begin{aligned}\vec{v}_y &= v_0 \sin 55 \\ \vec{v}_y &= (8 \text{ m/s}) \sin 55 \\ \vec{v}_y &= 6.6 \text{ m/s}\end{aligned}$$

Since the completely parabolic path is symmetric

$$\vec{v}_y = -\vec{v}_y = -6.6 \text{ m/s}$$

- Approximately how far will an object near Earth's surface fall in  $3.0 \text{ s}$ ?

- $44 \text{ m}$**
- $29 \text{ m}$
- $9.8 \text{ m}$
- $88 \text{ m}$

$$\begin{aligned}\vec{y} - \vec{y}_0 &= ? \\ t &= 3.0 \text{ s} \\ \vec{v}_0 &= 0 \text{ m/s} \\ \vec{g} &= -9.8 \text{ m/s}^2\end{aligned}$$

$$\begin{aligned}\vec{y} - \vec{y}_0 &= \vec{v}_0 t + \frac{1}{2} \vec{g} t^2 \\ \vec{y} - \vec{y}_0 &= \frac{1}{2} \vec{g} t^2 \\ \vec{y} - \vec{y}_0 &= \frac{1}{2} (-9.8 \text{ m/s}^2) (3.0 \text{ s})^2\end{aligned}$$

$$\vec{y} - \vec{y}_0 = -44 \text{ m}$$

# Answer Key To Projectile Motion Sim

**Jerry D. Wilson**



## **Answer Key To Projectile Motion Sim:**

**Improving K-12 STEM Education Outcomes through Technological Integration** Urban, Michael J., Falvo, David A., 2015-11-12 The application of technology in classroom settings has equipped educators with innovative tools and techniques for effective teaching practice Integrating digital technologies at the elementary and secondary levels helps to enrich the students learning experience and maximize competency in the areas of science technology engineering and mathematics Improving K 12 STEM Education Outcomes through Technological Integration focuses on current research surrounding the effectiveness performance and benefits of incorporating various technological tools within science technology engineering and mathematics classrooms Focusing on evidence based approaches and current educational innovations this book is an essential reference source for teachers teacher educators and professionals interested in how emerging technologies are benefiting teaching and or learning efficacy **Inquiry and Problem Solving**, 1999

*Edutainment Technologies. Educational Games and Virtual Reality/Augmented Reality Applications* Maiga Chang, Wu-Yuin Hwang, Ming-Puu Chen, Wolfgang Mueller, 2011-09-02 This book constitutes the refereed proceedings of the 6th International Conference on E learning and Games Edutainment 2011 held in Taipeh Taiwan in September 2011 The 42 full papers were carefully reviewed and selected from 130 submissions The papers are organized in topical sections on augmented and mixed reality in education effectiveness of virtual reality for education ubiquitous games and ubiquitous technology future classroom e reader and multi touch learning performance and achievement learning by playing game design and development game based learning training interactions in games digital museum and technology and behavior in games educational robots and toys e learning platforms and tools game engine rendering animations game assisted language learning learning with robots and robotics education e portfolio and ICT enhanced learning game based testing and assessment trend development and learning process of educational mini games VR and edutainment *ENC Focus*, 1999

*Study Guide with ActivPhysics* Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999 **The role of body and environment in cognition** Dermot Lynott, Judith Holler, Louise Connell, 2014-08-25 Recent evidence has shown many ways in which our bodies and the environment influence cognition In this Research Topic we aim to develop our understanding of cognition by considering the diverse and dynamic relationship between the language we use our bodily perceptions and our actions and interactions in the broader environment There are already many empirical effects illustrating the continuity of mind body environment manipulating body posture influences diverse areas such as mood hormonal responses and perception of risk directing attention to a particular sensory modality can affect language processing signal detection and memory performance placing implicit cues in the environment can impact upon social behaviours moral judgements and economic decision making This Research Topic includes papers that explore the question of how our bodies and the environment influence cognition such as how we mentally represent the world around us understand language reason about

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1997 *International Conference on Simulation in Engineering Education (ICSEE '97)*, January 12-15, 1997, Sheraton Crescent Hotel, Phoenix, Arizona Darush Davani, Clark C. Guest, 1997

*Recent Advances in Condensed Matter Physics* Peng Sheng Wei, 2018-11-05 5th Conference on New Advances in Condensed Matter Physics NACMP 2018 Selected peer reviewed papers from the 5th Conference on New Advances in Condensed Matter Physics NACMP 2018 August 21-23 2018 Kunming China

**Educational Resources and Techniques**, 1978

**Interactive Physics Workbook** Cindy Schwarz, John Phillip Ertel, 2004 For courses in algebra based and calculus based physics This interactive workbook tutorial oriented worksheets and CD ROM package is designed to help students visualize and work with specific physics problems through simulations created with Interactive Physics files Forty problems of varying degrees of difficulty require students to make predictions change variables run and visualize motion on the computer The accompanying workbook study guide provides instructions physics review hints and questions The accompanying CD ROM contains everything students need to run the simulations

*Modeling and Simulation*, 1979

Emile Mark Joseph Guzdial, 1993

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International Software Directory--microcomputers, 1982

**Current Advances in Mechanical Design and Production IV** Yehia H. Kabil, Mohsen E. Said, 1989 Presents an overview of the state of the art in mechanical design and production Both basic and applied research papers highlight recent trends techniques and case studies in two major fields analysis and design of mechanical systems and components production and industrial engineering This volume also includes all the invited keynote lectures presented at the conference Contains 73 papers

**College Physics** Jerry D. Wilson, 2000

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**The E-Assessment Handbook** Geoffrey Crisp, 2007-09-05 Assessing learning in an online environment is being used by teachers and institutions at an increasing rate This text provides practical guidance on various aspects of online assessment including types of assessment choosing the right software and examples of e assessments over a wide variety of disciplines

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## **Table of Contents Answer Key To Projectile Motion Sim**

1. Understanding the eBook Answer Key To Projectile Motion Sim
  - The Rise of Digital Reading Answer Key To Projectile Motion Sim
  - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key To Projectile Motion Sim
  - 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 Motion Sim
  - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key To Projectile Motion Sim

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

- Fact-Checking eBook Content of Answer Key To Projectile Motion Sim
- 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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