

Projectile Motion Review Key

1. 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.

2. A bullet is fired at an angle of 45° . 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° angle.



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

3. 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.

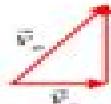
4. In the first practicum the ball was shot horizontally. What was the initial vertical velocity (v_{0y}) of the ball when it was shot?

a. 0 m/s

The initial velocity is completely horizontal.

5. A soccer ball is kicked at a 55° angle with an initial velocity of 8 m/s . What is the vertical velocity of the ball as it hits the ground?

- 8 m/s
- -8 m/s
- -6.6 m/s**



$$\bar{v}_{0y} = v_0 \sin 55$$

$$\bar{v}_{0y} = (8 \text{ m/s}) \sin 55$$

$$\bar{v}_{0y} = 6.6 \text{ m/s}$$

Since the completely parabolic path is symmetric

$$\bar{v}_y = -\bar{v}_{0y} = -6.6 \text{ m/s}$$

6. Approximately how far will an object near Earth's surface fall in 3.0 s ?

- 44 m
- 29 m
- 9.8 m
- 88 m

$$\bar{y} - \bar{y}_0 = ?$$

$$t = 3.0 \text{ s}$$

$$\bar{v}_0 = 0 \text{ m/s}$$

$$\bar{g} = -9.8 \text{ m/s}^2$$

$$\bar{y} - \bar{y}_0 = \bar{v}_0 t + \frac{1}{2} \bar{g} t^2$$

$$\bar{y} - \bar{y}_0 = \frac{1}{2} \bar{g} t^2$$

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

$$\bar{y} - \bar{y}_0 = \frac{1}{2} (-9.8 \text{ m/s}^2) (3.0 \text{ s})^2$$

Answer Key To Projectile Motion Sim

M Woodhall

Answer Key To Projectile Motion Sim:

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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

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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

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Modeling and Simulation, 1979 **Emile** Mark Joseph Guzdial, 1993 *Proceedings of the Military Government and Aerospace Simulation* Michael J. Chinni, 1998 This proceedings features papers on land sea air space DIS virtual environments within the military government aerospace arenas

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 *The School Science Review*, 2004

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

Scientific American, 1894

Scientific Canadian Mechanics' Magazine and Patent Office Record Canada. Patent Office, 1889

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