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Student Exploration: Golf Range

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: acceleration, air resistance, gravity, hang time, launch angle, projectile motion, trajectory, vector, velocity

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. You are in a contest with your friends to see who can drive a golf ball the farthest. Should you hit a "line drive" (low to the ground) or a shot with a very high angle? Explain.

Low to the ground, because with a lower angle the horizontal component will be larger, which means it will travel farther.

2. Golf drives travel much farther than Major League home runs. Why might this be?

The golf is heavier and has smaller size (greater density), so the air resistance on the golf ball is smaller.

Gizmo Warm-up

Have you ever hit a hole-in-one? You will have a chance to do that in the Golf Range Gizmo, where you will see how a variety of factors affect the path of a golf ball. The movement of objects such as a ball through space is called **projectile motion**.



1. Press **Play** (▶). Did the ball go too far, the right distance, or not far enough?

not far enough

2. Click **Reset** (↺). Move the v_{initial} and θ sliders to adjust the **velocity** and **launch angle** until you get a hole-in-one. (With the Gizmo sound on (🔊) you will hear "Hole in one!")

What were the velocity and launch angle values?

$v = 65\text{m/s}$ $\theta = 45^\circ$

3. Can you get holes-in-one using other combinations of v_{initial} and θ ? If so, give an example.

yes, $v = 80\text{m/s}$ $\theta = 19^\circ$

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Golf Range Physics Answer Key

Richard Colwell, Carol Richardson

Golf Range Physics Answer Key:

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theory curriculum and educating musically are also explored in relationship to policy issues In addition to surveying the literature each chapter considers the significance of the research and provides suggestions for future study Covering a broad range of topics and addressing the issues of music education at all age levels from early childhood to motivation and self regulation this handbook is an invaluable resource for music teachers researchers and scholars

Physics for Global Scientists and Engineers, Volume 2 Raymond A. Serway, John W. Jewett, Wayne (California State Polytechnic University Rowlands, Pomona), Kate Wilson, Wayne Rowlands, Anna (University of Canberra Wilson, Australian National University), 2016-10-01 This second edition of Serway's Physics For Global Scientists and Engineers is a practical and engaging introduction for students of calculus based physics Students love the Australian Asia Pacific and international case studies and worked examples concise language and high quality artwork in two easy to carry volumes NEW key topics in physics such as the Higgs boson engage students and keep them interested NEW Maths icons highlight mathematical concepts in the text and direct students to the relevant information in the Maths Appendix NEW Index of Symbols provides students with a quick reference for the symbols used throughout the book This volume two includes Electricity and magnetism Light and optics and Quantum physics Volume one covers Mechanics Mechanical properties of solids and fluids Oscillations and mechanical waves and Thermodynamics

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evolution of our universe along with profound questions still to be answered in this ancient yet rapidly changing field The Complete Book of Colleges, 2013 Edition Princeton Review,2012-08-07 Profiles every four year college in the United States providing detailed information on academic programs admissions requirements financial aid services housing athletics contact names and campus life Physics for Scientists and Engineers Paul M. Fishbane,Stephen Gasiorowicz,Stephen T. Thornton,1996 Appropriate for any introductory calculus based physics course Fishbane Gasiorowicz Thornton is a comprehensive introduction to calculus based physics The most successful first edition physics text of the last decade it is the only book written specifically to address the main issue in this course namely balancing the needs and wants of the students with those of the instructor The authors experienced researchers and teachers represent both theoretical and experimental physicists This text presents balance between theory and applications between concepts and problem solving between mathematics and physics and finally between technology and traditional pedagogical methods Appropriate for both scientists and engineers with increased applications for engineering students Applied Mechanics Reviews ,1994 **Choice** ,1993 *Patterns of Human Motion* Stanley Plagenhoef,1971 **Intermarket** ,1985-07 Proceedings of the IRE. ,1960 *Proceedings of the IRE.* Institute of Radio Engineers,1960 ESL Vocabulary and EFL Diana Bloom,2004 The New Yorker ,1970 *The Publishers' Trade List Annual* ,1972 **Materials World** ,2000 **Paper** ,1979

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