



Lab 4: 2-D Kinematics and Projectile Motion

Pre-Lab Questions

1. In one of your experiments, you will roll a marble down a ramp to provide an initial horizontal velocity. Suppose you start the marble at rest ($v_i = 0 \text{ m/s}$) and it travels a distance of, d , down the ramp. Use 1-D kinematics to predict the velocity of the ball (v_f) at the bottom of the ramp. Hint: the acceleration of the ball down the ramp is $9.81 \cdot \sin(\theta) \text{ m/s}^2$ where θ is the angle of the ramp. Record you answer in variables (you will calculate the velocity with magnitudes when you perform the experiment).
2. Use the kinematic equations to derive a general equation for the time it takes a ball dropped from rest at vertical height, h , to reach the ground.
3. Use the result from Question 2 to write a general equation for the distance travelled by a projectile that is rolling off a table of height, h , with a horizontal speed, v_{ix} .

Escience Labs Answers

Rachel Sandford



Escience Labs Answers:

Data Driven e-Science Simon C. Lin, Eric Yen, 2011-02-04 ISGC 2010 The International Symposium on Grid Computing was held at Academia Sinica Taipei Taiwan March 2010 The 2010 symposium brought together prestigious scientists and engineers worldwide to exchange ideas present challenges solutions and to discuss new topics in the field of Grid Computing Data Driven e Science Use Cases and Successful Applications of Distributed Computing Infrastructures ISGC 2010 an edited volume introduces the latest achievements in grid technology for Biomedicine Life Sciences Middleware Security Networking Digital Library Cloud Computing and more This book provides Grid developers and end users with invaluable information for developing grid technology and applications The last section of this book presents future development in the field of Grid Computing This book is designed for a professional audience composed of grid users developers and researchers working in the field of grid computing Advanced level students focused on computer science and engineering will also find this book valuable as a reference or secondary text book *Helping Students Motivate Themselves* Larry Ferlazzo, 2013-09-27 Give your students the tools they need to motivate themselves with tips from award winning educator Larry Ferlazzo A comprehensive outline of common classroom challenges this book presents immediately applicable steps and lesson plans for all teachers looking to help students motivate themselves With coverage of brain based learning classroom management and using technology these strategies can be easily incorporated into any curriculum Learn to implement solutions to the following challenges How do you motivate students How do you help students see the importance of personal responsibility How do you deal with a student who is being disruptive in class How do you regain control of an out of control class And more Blogger and educator Larry Ferlazzo has worked to combine literacy development with short and rigorous classroom lessons on topics such as self control personal responsibility brain growth and perseverance He uses many on the spot interventions designed to engage students and connect with their personal interests Use these practical research based ideas to ensure all of your students are intrinsically motivated to learn **AP® Biology Crash Course, Book + Online** Michael D'Alessio, 2020-01-24 AP Biology Crash Course updated for today's exam A Higher Score in Less Time At REA we invented the quick review study guide for AP exams A decade later REA's Crash Course remains the top choice for AP students who want to make the most of their study time and earn a high score Here's why more AP teachers and students turn to REA's AP Biology Crash Course Targeted Review Study Only What You Need to Know REA's all new 3rd edition addresses all the latest test revisions Our Crash Course is based on an in depth analysis of the revised AP Biology course description outline and sample AP test questions We cover only the information tested on the exam so you can make the most of your valuable study time Expert Test taking Strategies and Advice Written by a veteran AP Biology teacher and test development expert the book gives you the topics and critical context that will matter most on exam day Crash Course relies on the author's extensive analysis of the test's structure and content By following her advice you can boost your score Practice questions a mini test in

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