Name:

Skylar Austin

Date:

07-08-2022

#### Student Exploration: Free-Fall Laboratory

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

Vocabulary: acceleration, air resistance, free fall, instantaneous velocity, terminal velocity, velocity, vacuum

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

1. Suppose you dropped a feather and a hammer at the same time. Which object would hit the ground first?

The Hammer

2. Imagine repeating the experiment in an airless tube, or vacuum. Would this change the result? If so, how?

They would fall at the same moment since there is no air resistance, hence the answer is yes.

#### Gizmo Warm-up

The Free-Fall Laboratory Gizmo allows you to measure the motion of an object in free fall. On the DESCRIPTION tab, check that the Shuttlecock is selected, the Initial height is 3 meters, and the Atmosphere is Air.

 Click Play ( ) to release the shuttlecock. How long does it take to fall to the bottom?

T=0.90 s

Time (a): 0.00

Select the GRAPH tab. The box labeled ħ (m) should be checked, displaying a graph of height vs. time. What does this graph show?

The shuttlecock is descending more quickly.

 Turn on the v (m/s) box to see a graph of velocity vs. time. Velocity is the speed and direction of the object. Velocity is also referred to as instantaneous velocity. Because the shuttlecock is falling downward, its velocity is negative.

Does the velocity stay constant as the object drops?

no

4. Turn on the a (m/s/s) box to see a graph of acceleration vs. time. Acceleration is the rate at which the velocity changes over time. What does this graph show?

# **Fall Gizmo Answer Key**

**Prof. Sham Tickoo** 

#### Fall Gizmo Answer Key:

Icicle Falls Christmas Collection Sheila Roberts, 2018-11-12 Join bestselling author Sheila Roberts for the holidays in Icicle Falls where life s full of surprises and happiness is just around the corner Together for the first time in one box set all the Christmas stories from her popular Life in Icicle Falls series Merry Ex Mas Cass Wilkes owner of the Gingerbread Haus bakery was looking forward to her daughter Danielle's wedding until Dani announced that she wants her father Cass's ex to walk her down the aisle Her friend Charlene Albach arrives at their weekly chick flick night in shock She s just seen the ghost of Christmas past her ex husband Richard who left a year ago when he ran off with the hostess from her restaurant Zelda's Now the hostess is history and he wants to kiss and make up Hide the mistletoe And bring out the hot buttered rum because the holidays aren t easy for Ella O Brien either Ella newly divorced is still sharing the house with her ex while they wait for the place to sell The love is gone Isn t it But watch as Christmas brings all kinds of surprises Originally published in 2013 Christmas on Candy Cane Lane Everyone's getting ready for Christmas in Icicle Falls especially on Candy Cane Lane where holiday decorating is taken very seriously But this year someone s destroying the precious decorations Thank goodness for the cop in their neighborhood And while some town residents are excited to host their families for the holidays others can sum up the holiday in two words Bah humbug But despite family disasters irritating ex husbands and kitchen catastrophes three women are going to find out that Christmas really is the most wonderful time of the year Originally published in 2015 Christmas in Icicle Falls When Muriel Sterling released her new book A Guide to Happy Holidays she felt like the gueen of Christmas She's thrilled when the new tree she ordered online arrives and is eager to show it off until she gets it out of the box and realizes it s a mangy dud But rather than give up on the ugly tree Muriel decides to make a project out of it As she pretties up her tree she realizes there s a lesson to be learned everything and everyone has potential Maybe even her old friend Arnie who s loved her for years Except she s not the only one seeing Arnie s potential Meanwhile Muriel s ugly tree project has also inspired her friends Sienna Moreno is trying to bring out the best in the grouchy man next door who hates noise hates kids and hates his new neighbors And while Olivia Claussen would love to send her obnoxious new daughter in law packing she's adjusting her attitude and trying to discover what her son sees in the girl If these women can learn to see the beauty in the ugly trees in their lives perhaps this might turn out to be the happiest holiday yet Originally published in 2018 Language Arts, Grade 1 Spectrum, 2011-02-15 Helps young learners improve and strengthen their language arts skills such as parts of speech capitalization word usage writer s guide Cover p 4 Real Research Liahna Gordon, 2019-02-21 Real Research Research Methods Sociology Students Can Use by Liahna Gordon is an innovative text that takes a holistic approach to the subject by discussing each step in the research process within the context of a particular method With no generalizations about concepts that apply to only some research methods but not others students can jump into the first research method within the first two weeks of class After an overview of data collection in the first chapter

subsequent chapters focus on eight specific quantitative and qualitative methods most frequently used in sociology The Second Edition includes a new chapter on focus groups updated Real Research profiles of individuals using research methods in a wide range of careers and examples of common student errors to streamline learning Dale Carnegie & Associates Success Tool Kit Dale Carnegie & Associates, 2022-04-05 Dale Carnegie Training has evolved from one man's belief in the power of self improvement to a performance based training company with offices worldwide Over 8 million professionals have come to sharpen their skills and improve their performance You can be one of them Why do we so often fail to connect when speaking with others Wouldn t you like to make yourself heard and understood Using vivid examples easy to learn techniques and practical exercises for becoming a better listener and making yourself heard and understood Dale Carnegie will show you how it s done even in difficult situations Today where media is social and funding is raised by crowds the sales cycle has permanently changed It's not enough to know your product nor always appropriate to challenge your customer's thinking based on your research Dale Carnegie Associates reveal the REAL modern sales cycle that depends on your ability to influence more than just one buyer understand what today s customers want and use time tested principles to strengthen relationships anywhere in the global economy Dale Carnegie's unique and powerful approach to leadership training is based on wisdom and expertise gained from developing leaders longer than any other professional development organization If you want to be more effective at motivating and inspiring your teams this book will give you the tools and techniques to address common leadership challenges and shift your mindset and behavior to become a more positive and confident role model Harvey Drew and the Bin Men From Outer Space Cas Lester, 2014-03-06 A really rubbish adventure in outer leader space Harvey Drew is an ordinary eleven year old who dreams of great adventures in outer space The Toxic Spew is an intergalactic waste disposal ship The two are on a collision course for chaos After Harvey unwittingly responds to an alien signal he is transported to the flight deck of The Toxic Spew by the ship s bad tempered computer who promptly loses his return address Even though none of the crew have even heard of Earth let alone met an Earthling Harvey becomes Captain of the stroppy pizza obsessed brave but grubby crew and almost immediately has to save them from poisonous pink maggots dangerous exploding space rubbish and a multiple spaceship pile up on Hyperspaceway B16 Luckily leading his rabble crew out of danger isn t so different from captaining his football team and it turns out Harvey is just the boy to save the day

The St. Andrews Werewolf (Novel Study) Gr. 6-8 Sherry R. Bennett, Marie M. Fraser, 1998-01-01 The St Andrews Werewolf finds Liz Austen in St Andrews New Brunswick were she lands a role in a summer production of Annie There Liz and her friend Makiko investigate the legend of the St Andrews Werewolf a series of arsons and a mysterious mansion on an island Appealing to children s inherent keen interest in mystery Eric Wilson has skillfully woven accurate Canadian geographic and historic information into his writing As such these novels lend themselves to the integrated study of the mystery genre with Canadian geography topics in social studies and investigation units in science The St Andrews Werewolf

provides rich material for the study of setting characterization and plot development This Novel Study provides a teacher and student section with a variety of activities chapter questions crossword and answer key to create a well rounded lesson plan

Business Information Systems Workshops Witold Abramowicz, Angelika Kokkinaki, 2014-09-30 This book constitutes the refereed proceedings of the five workshops that were organized in conjunction with the International Conference on Business Information Systems BIS 2014 which took place in Larnaca Cyprus in May 2014 The 27 papers in this volume were carefully reviewed and selected from 53 submissions and were revised and extended after the event The workshop topics covered applications and economics of knowledge based technologies AKTB business and IT alignment BITA digital currencies DC modern applications of business information systems MODAPP and tools for setting up and running a business in cloud computing TSRB In addition a keynote paper is included in this book Autodesk 3ds Max 2021: A Comprehensive Guide, 21st Edition Prof. Sham Tickoo, 2020-09-04 Autodesk 3ds Max 2021 A Comprehensive Guide aims at harnessing the power of Autodesk 3ds Max for modelers animators and designers The book caters to the needs of both the novice and the advanced users of 3ds Max Keeping in view the varied requirements of the users the textbook first introduces the basic features of 3ds Max 2021 and then gradually progresses to cover the advanced 3D models and animations In this textbook one project which is based on the tools and concepts covered in the text has been added to enhance the knowledge of the users Additionally in this edition the readers will be able to learn about some new and enhanced features of 3ds Max 2020 such as Compound Shapes and Chamfer Modifier This book will help you unleash your creativity thus helping you create stunning 3D models and animations Salient Features Consists of 18 chapters and 1 project that are organized in a pedagogical sequence covering various aspects of modeling texturing lighting and animation The author has followed the tutorial approach to explain various concepts of modeling texturing lighting and animation The first page of every chapter summarizes the topics that are covered in it Step by step instructions that guide the users through the learning process Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of each chapter to help the users assess their knowledge Table of Contents Chapter 1 Introduction to Autodesk 3ds Max 2021 Chapter 2 Standard Primitives Chapter 3 Extended Primitives Chapter 4 Working with Architectural Objects Chapter 5 Splines and Extended Splines Chapter 6 Modifying Splines Chapter 7 Materials and Maps Chapter 8 Modifying 3D Mesh Objects Chapter 9 Graphite Modeling Technique Chapter 10 Compound Objects Chapter 11 Modifiers Chapter 12 Lights and Rendering Chapter 13 Animation Basics Chapter 14 Rigid Body Dynamics and Helpers Chapter 15 NURBS Modeling Chapter 16 Systems Hierarchy and Kinematics Chapter 17 Particle Systems and Space Warps I Chapter 18 Particle Systems and Space Warps II Project 1 Creating a Diner 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