



Name:

Date:

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?

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

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**.

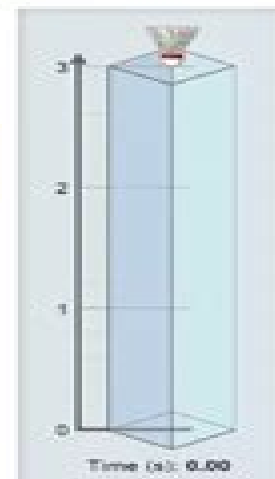
1. Click **Play** (▶) to release the shuttlecock. How long does it take to fall to the bottom?

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

3. 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?

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?



Answer Key To The Fall Laboratory Gizmo

A Gutmann



Answer Key To The Fall Laboratory Gizmo:

Secret Gear, Gadgets, and Gizmos Bill Yenne, William Yenne, The relationship between war and science as old as the wheel entered a whole new realm with the Civil War the first truly technological conflict *Secret Gadgets and Strange Gizmos* traces this evolving connection from the deadly innovations of the Union and Confederate forces to the top secret high tech inventions that are making military history today Chronicling the hits the misses and the important technological advances produced by the U S military s high tech hubs aviation wireless communication the Internet atomic energy satellite technology and space travel this richly illustrated book takes readers from the ironclads land mines and ship launched hydrogen balloons of the Civil War to the world changing bombs of the Atomic Age

100 Brain-Friendly Lessons for Unforgettable Teaching and Learning (9-12) Marcia L. Tate, 2019-07-24 Use research and brain based teaching to engage students and maximize learning Lessons should be memorable and engaging When they are student achievement increases behavior problems decrease and teaching and learning are fun In *100 Brain Friendly Lessons for Unforgettable Teaching and Learning* 9 12 best selling author and renowned educator and consultant Marcia Tate takes her bestselling *Worksheets Don t Grow Dendrites* one step further by providing teachers with ready to use lesson plans that take advantage of the way that students really learn Readers will find 100 cross curricular sample lessons from each of the four major content areas Plans designed around the most frequently taught objectives Lessons educators can immediately adapt 20 brain compatible research based instructional strategies Questions that teachers should ask and answer when planning lessons Guidance on building relationships with students to maximize learning

Engaging the Brain Marcia L. Tate, 2024-08-21 Create unforgettable learning experiences for your students What can you do when students would rather socialize than pay attention to your lesson When students appear to lack motivation how do teachers ensure that learning sticks How can you best respond to learning loss caused by the pandemic In this new edition of Marcia Tate s wildly bestselling *Worksheets Don t Grow Dendrites* 20 field tested brain compatible instructional strategies designed to maximize memory are supported by new classroom applications and research In each chapter devoted to an individual strategy you ll discover The latest research on how the brain benefits when the strategy is used How the strategy engages all students and addresses common behavior problems Sample classroom activities for various grade levels that teachers can implement immediately Action plans for incorporating each strategy to accelerate learning When students actively engage in learning they stand a much better chance of retaining what we want them to know As students face setbacks and learning gaps it s imperative that we quickly bridge these divides by teaching them in the way their brains learn best

The Goldilocks Effect Michael Mendoza, 2020-10-25 Goldilocks entered the three bears home to find the porridge either too hot too cold or just right The Goldilocks Effect refers to the fact that the physical laws that govern the cosmos are just right The smallest changes could threaten the fabric of existence A physicist Eric Carlyle disappears Carlyle s lab assistant enlists the aid of

Daniel Filby a washed up philosophy professor who is Carlyle s closest friend to find the missing scientist Filby discovers Carlyle has invented a machine for traveling through time and space and wrote the secret to time travel between the lines of Filby s book *The Goldilocks Effect* A crooked FBI agent and a European thug want Carlyle s notes The European uses the machine to change the past creating a universe ending paradox To solve the mystery of his missing friend and save the world Filby must use the device restore balance to the universe and find Carlyle *The Secret Life of Salmon* Henry J

Giles,2024-10-30 Via philosophy technique and knowledge Giles encourages the reader to question and ponder sharing expert insight The Field Alexandra Henton editor *The Secret Life of Salmon* is something both personal and intimate and macro and global The life story of Atlantic Chum Sockeye King Silver and Pink salmon has gripped the human consciousness since the dawn of time Now we have a new interactive angle on the existential eco status of the king of fish A mirror held up to our warming world via science sporting and aquacultural viewpoints This book takes in the start of a salmon s life cycle with gravel covered eggs hatching in a specific river pool we hear fascinating secrets with a backdrop of the time lapsed seasons changing overhead and specified times of year We follow the salmon s epic journey of quest through icy and wild northern waters to its conclusion in an upland stream Read about the great success stories of conservation the 21st century buy out of drift nets in British and Irish waters the application of ranching in the vast waters of the Alaskan Pacific The groundbreaking smolt tracking methods using cutting edge science applied on famous but threatened salmon populations from New Brunswick streams to Moray Firth rivers and out to sea A sustainable future for these iconic fish The answer is here including the latest on new technology and significance and legacy of COP26 in Glasgow taking in the road to COP 27 and beyond Predators Size of river Numbers Withering in river predation from mergansers goosanders and mink then grey seals dolphins and orcas in salmon s marine iteration How do fish in your chosen location fare compared to salmon elsewhere The answer is here Bringing it back home the pods of muscled chrome silver salmon nosing back into tidal reaches of their home river to spawn A map in its head a smell of the water Nature s wisdom staggering runs of fish back on an imperative they can t ignore This book with its unique pictures is a visual technical philosophical and emotional feast and a serious call to arms New light is shed on new events new scientific and environmental projects and the foreword by Dr Paul Rouse FRSA who worked with the Carnegie Climate Governance Initiative as its science adviser sets an epoch defining moment for the salmon and its secrets Praise for *How To Catch More Salmon* White Owl Books 2019 Devoted salmon fisher Henry Giles has written a book to help others catch the elusive kings of the river Try it you might just get hooked *The Scotsman* *THE Journal* ,1995-08 **Inventology** Pagan Kennedy,2016-03-24 Find out where great ideas come from A businessman struggles with his luggage at an airport and pioneers the wheeled suitcase An engineer watches people using walkie talkies and dreams up the mobile phone A printer is frustrated by his unpredictable inks and creates the Pantone colour system Why were these particular people able to identify a problem and how did they discover the solutions that everyone else missed

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New Scientist and Science Journal ,2007 **Professional Visual Studio 2005 Team System** Jean-Luc David,Tony Loton,Erik Gunvaldson,Christopher Bowen,Noah Coad,Darren Jefford,2006-05-11 A team of Microsoft insiders shows programmers how to use Visual Studio 2005 Team System the new suite of products from Microsoft that can be used for software modeling design testing and deployment Focuses on practical application of the tools on code samples development scenarios and automation scripting This timely book serves as both as a step by step guide and as a reference for modeling designing and coordinating enterprise solutions at every level using Team System The book begins with an overview of Team System and then offers nuts and bolts guidance on practical implementation Code examples are provided in both VB NET and C *Keyboarding/typewriting for Personal Applications* Berle Hagglade,1993 **Brands and Their Companies** ,2000

Media Spectrum ,2002 **Readings in Mass Communication** Kimberly K. Massey,2002 This reader is designed to supplement any core textbook in Introduction to Mass Communication The goal of the reader is to help students think more critically about the media By drawing from a wide variety of sources and political and cultural viewpoints this collection is predicated on the fact that students learn about the media mainly through the media by reading or hearing about media in media publications or broadcasts These articles are drawn mostly from popular and alternative media and take a hard and critical look at the political and social forces that drive media decision making **Transactions of the American Foundry Society** ,2002 Profile Susan Yelavich,2004-07 The first book on the legendary design firm Pentagram **Children's Books in Print, 2007** ,2006 **The Year's Best Science Fiction: Ninth Annual Collection** Gardner Dozois,1992-06-15

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