



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

Huangqi Zhang

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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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 Where exactly did their

great ideas come from and how did they go about making them a reality In pursuit of answers Pagan Kennedy has spent her career examining the creative process interviewing inventors and engineers scientists psychologists and economists in a bid to understand how we create In Inventology Kennedy collects their wisdom and explores a series of landmark inventions taking us through the processes by which we have come to dream up new products and technologies and conceived solutions to impossible problems A must read for anyone who is curious about imagination design and innovation Inventology will inspire and entertain and will show you how to become more creative New Scientist ,2007 **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

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