

Free-Fall Laboratory

Answer Key

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

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

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

1. Suppose you dropped a feather and a hammer at the same time. Which object would hit the ground first? *Answers will vary. [The hammer would hit the ground first.]*
2. Imagine repeating the experiment in an airless tube, or **vacuum**. Would this change the result? If so, how?

Answers will vary. [In a vacuum, both objects would hit the ground at the same time.]

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? *0.90 seconds*
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?
The height decreases over time.
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? *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?

Acceleration starts at about -10 m/s/s, but gets closer to 0 as the shuttlecock falls.



Fall Gizmos Answer Keys

JL Elias

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located on the right side of the slide.

Fall Gizmos Answer Keys:

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Table of Contents Fall Gizmos Answer Keys

1. Understanding the eBook Fall Gizmos Answer Keys
 - The Rise of Digital Reading Fall Gizmos Answer Keys
 - Advantages of eBooks Over Traditional Books
2. Identifying Fall Gizmos Answer Keys
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fall Gizmos Answer Keys
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fall Gizmos Answer Keys
 - Personalized Recommendations
 - Fall Gizmos Answer Keys User Reviews and Ratings
 - Fall Gizmos Answer Keys and Bestseller Lists
5. Accessing Fall Gizmos Answer Keys Free and Paid eBooks
 - Fall Gizmos Answer Keys Public Domain eBooks
 - Fall Gizmos Answer Keys eBook Subscription Services
 - Fall Gizmos Answer Keys Budget-Friendly Options
6. Navigating Fall Gizmos Answer Keys eBook Formats

- ePub, PDF, MOBI, and More
- Fall Gizmos Answer Keys Compatibility with Devices
- Fall Gizmos Answer Keys Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fall Gizmos Answer Keys
 - Highlighting and Note-Taking Fall Gizmos Answer Keys
 - Interactive Elements Fall Gizmos Answer Keys
- 8. Staying Engaged with Fall Gizmos Answer Keys
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fall Gizmos Answer Keys
- 9. Balancing eBooks and Physical Books Fall Gizmos Answer Keys
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fall Gizmos Answer Keys
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fall Gizmos Answer Keys
 - Setting Reading Goals Fall Gizmos Answer Keys
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fall Gizmos Answer Keys
 - Fact-Checking eBook Content of Fall Gizmos Answer Keys
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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