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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**.

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

T=0.90 s

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 shuttlecock is descending more quickly.

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?



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Liyong Dong

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the name bar.

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Table of Contents Fall Gizmo Answer Key

1. Understanding the eBook Fall Gizmo Answer Key
 - The Rise of Digital Reading Fall Gizmo Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Fall Gizmo Answer Key
 - 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 Gizmo Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fall Gizmo Answer Key

- Personalized Recommendations
- Fall Gizmo Answer Key User Reviews and Ratings
- Fall Gizmo Answer Key and Bestseller Lists
- 5. Accessing Fall Gizmo Answer Key Free and Paid eBooks
 - Fall Gizmo Answer Key Public Domain eBooks
 - Fall Gizmo Answer Key eBook Subscription Services
 - Fall Gizmo Answer Key Budget-Friendly Options
- 6. Navigating Fall Gizmo Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Fall Gizmo Answer Key Compatibility with Devices
 - Fall Gizmo Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fall Gizmo Answer Key
 - Highlighting and Note-Taking Fall Gizmo Answer Key
 - Interactive Elements Fall Gizmo Answer Key
- 8. Staying Engaged with Fall Gizmo Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fall Gizmo Answer Key
- 9. Balancing eBooks and Physical Books Fall Gizmo Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fall Gizmo Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fall Gizmo Answer Key
 - Setting Reading Goals Fall Gizmo Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fall Gizmo Answer Key

- Fact-Checking eBook Content of Fall Gizmo Answer Key
 - 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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