

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Free-Fall Laboratory

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

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

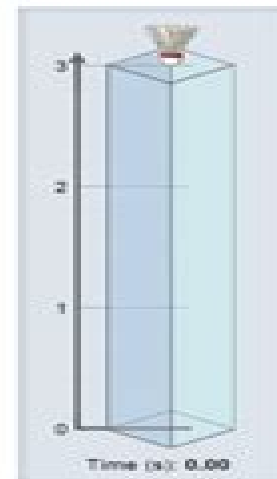
1. Suppose you dropped a feather and a hammer at the same time. Which object would hit the ground first? **Hammer**
2. Imagine repeating the experiment in an airless tube, or **vacuum**. Would this change the result? If so, how? **Yes, since there is no air resistance in the vacuum, they would fall at 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 **CONTROLS** pane 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 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?  
**Shows that the shuttlecock is accelerating downwards.**
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**



# Fall Laboratory Gizmo Answers

**N Noddings**



**Fall Laboratory Gizmo Answers:**

## The Enigmatic Realm of **Fall Laboratory Gizmo Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Fall Laboratory Gizmo Answers** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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