

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.)

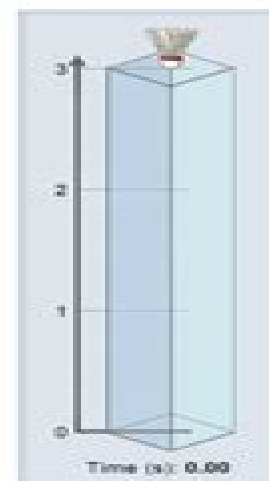
1. Suppose you dropped a feather and a hammer at the same time. Which object would hit the ground first? **Hammer**
2. Imagine repeating the experiment in an airless tube, or **vacuum**. Would this change the result? If so, how? **Yes, since there is no air resistance in the vacuum, they would fall at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

**R Barnett**



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