

Name: _____

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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.)

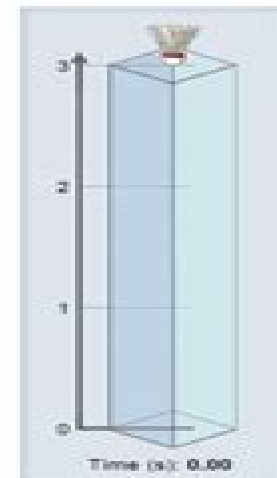
1. Suppose you dropped a feather and a hammer at the same time. Which object would hit the ground first? **Hammer**
2. Imagine repeating the experiment in an airless tube, or **vacuum**. Would this change the result? If so, how? **Yes, since there is no air resistance in the vacuum, they would fall at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



Gizmo Student Exploration Answers

Annelies Wilder-Smith

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

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