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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?

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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?

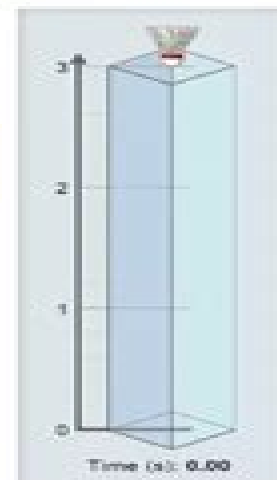
The shuttlecock is descending more quickly.

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?



Answer Key To The Fall Laboratory Gizmo

Marcia L. Tate

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.

Answer Key To The Fall Laboratory Gizmo:

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