

Free-Fall Laboratory

Answer Key

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

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

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

1. Suppose you dropped a feather and a hammer at the same time. Which object would hit the ground first? *Answers will vary. [The hammer would hit the ground first.]*
2. Imagine repeating the experiment in an airless tube, or **vacuum**. Would this change the result? If so, how?

Answers will vary. [In a vacuum, both objects would hit the ground 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 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? *0.90 seconds*
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 height decreases over time.
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?

Acceleration starts at about -10 m/s/s, but gets closer to 0 as the shuttlecock falls.



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Y Pai

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'Y Pai' text.

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