

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.



Fall Gizmos Answer Keys

Liyong Dong



Fall Gizmos Answer Keys:

Unveiling the Magic of Words: A Overview of "**Fall Gizmos Answer Keys**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Fall Gizmos Answer Keys**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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