

# 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.]

- 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.]
- Imagine repeating the experiment in an airless tube, or vacuum. Would this change the result? If so, how?

Answers will vary. I'm a vacuum, both objects would hit the ground at the same time.)

#### Gizmo Warm-up

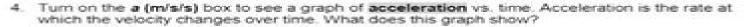
The Free-Fall Laboratory Gizmo allows you to measure the motion of an object in free fall. On the DESCRIPTION tab, check that the Shuttlecock is selected, the Initial height is 3 meters, and the Atmosphere is Air.

- Click Play (P) to release the shuttlecock. How long does it take to fall to the bottom? 0.90 seconds
- 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.

 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



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





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