Name:

Skylar Austin

Date:

07-08-2022

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.

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

T=0.90 s

Time (a): 0.00

Select the GRAPH tab. The box labeled ħ (m) should be checked, displaying a graph of height vs. time. What does this graph show?

The shuttlecock is descending more quickly.

 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

Huangqi Zhang

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