

CHAPTER³

STUDY GUIDE

ACCELERATED MOTION

Vocabulary Review

Write the term that correctly completes the statement. Use each term once.

acceleration**average acceleration****instantaneous
acceleration****free-fall acceleration****free fall****velocity-time graph**

1. _____ A _____ shows how velocity is related to time.
2. _____ The change in velocity of an object at an instant of time is its _____.
3. _____ The rate at which an object's velocity changes is its _____.
4. _____ The motion of falling objects when air resistance is negligible is called _____.
5. _____ The _____ of an object is the change in velocity during some measurable time interval divided by that time interval.
6. _____ The acceleration of an object in free fall that results from the influence of Earth's gravity is _____.

Free Fall

For each statement below, write true or rewrite the italicized part to make the statement true.

1. _____ A feather does not fall in the same way as a pebble because of *gravity*.
2. _____ Free fall is the motion of a falling object when the air resistance is negligible.
3. _____ Galileo concluded that objects in free fall have *different* accelerations.
4. _____ Free-fall acceleration is *the same* for objects of different sizes.
5. _____ Free-fall acceleration is always *downward*.
6. _____ If you drop a rock, its speed after 3 s will be 19.6 m/s.
7. _____ The decision to treat free-fall acceleration as positive or negative depends on the *coordinate system* you use.
8. _____ If you toss a ball up, it reaches its maximum height when its velocity is zero.

Chapter 3 • Accelerated Motion

Accelerated Motion Study Guide

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