

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**

- _____ A _____ shows how velocity is related to time.
- _____ The change in velocity of an object at an instant of time is its _____.
- _____ The rate at which an object's velocity changes is its _____.
- _____ The motion of falling objects when air resistance is negligible is called _____.
- _____ The _____ of an object is the change in velocity during some measurable time interval divided by that time interval.
- _____ 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.

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

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