

**CHAPTER 3****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

**Joseph J. Boyle, Douglas C. Giancoli**

## Accelerated Motion Study Guide:

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