

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 <i>gravity</i> . |
| 2. _____ | <i>Free fall</i> is the motion of a falling object when the air resistance is negligible. |
| 3. _____ | Galileo concluded that objects in free fall have <i>different</i> accelerations. |
| 4. _____ | Free-fall acceleration is <i>the same</i> for objects of different sizes. |
| 5. _____ | Free-fall acceleration is always <i>downward</i> . |
| 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 <i>coordinate system</i> you use. |
| 8. _____ | If you toss a ball up, it reaches its maximum height when its <i>velocity</i> is zero. |

Chapter 3 • Accelerated Motion

Physics Study Guide Answers Accelerated Motion Answers

Jerry Marion



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