Date	Period	Name	

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		
э	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.

- 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.
- f 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.
- 8. ______ If you toss a ball up, it reaches its maximum height when its velocity is zero.

 Charter 2 Accelerated Motion

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C Cleary

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