

## Chapter 9 Unit Test

Drag and Drop to complete the statement.

WORD BANK: (SOME WORDS WILL NOTE BE USED)

$\text{m/s}^2$	$\text{km/hr}^2$	constant	instantaneous	velocity
accelerates	acceleration	the ground	bicycle	stationary
velocity	motion	average		

1. A change in an object's position relative to a reference point is called \_\_\_\_\_.
2. When riding a bicycle past a building, you are not moving relative to the \_\_\_\_\_.
3. Speed that does not change is referred to as \_\_\_\_\_ speed.
4. The statement that the motion of a hurricane is 20 kilometers per hour in an easterly direction is a description of the hurricane's \_\_\_\_\_.
5. Acceleration is the rate of change in \_\_\_\_\_.
6. A golf ball \_\_\_\_\_ when either its speed or its direction changes.
7. The abbreviation of the unit of acceleration (meters per second per second) is \_\_\_\_\_.
8. Speed measured on a speedometer is \_\_\_\_\_ speed.

### Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

\_\_\_ 9. When an object's distance from another object is changing,  
a. it is in motion.  
b. it is speeding.  
c. it has a high velocity.  
d. it is accelerating.

\_\_\_ 10. A place or object used for comparison to determine if something is in motion is called  
a. a position.  
b. a reference point.  
c. a constant.  
d. velocity.