

# Physical Science

## Chapter 2 Reading Quiz

Name: \_\_\_\_\_

1. A reference point is needed to determine the \_\_\_\_\_ of an object.
2. The length of a runner's \_\_\_\_\_ and distance traveled would be the same if the runner's motion was in a single direction.
3. If a car travels 30 meters in 7 seconds, what is the speed of the car?  
\_\_\_\_\_
4. What is the SI unit of speed?
5. How fast does a rocket have to move to escape the Earth's atmosphere?  
\_\_\_\_\_
6. According to figure 3, when is the speed of the cyclist the greatest?
7. What type of speed is given by the speedometer on a car? \_\_\_\_\_
8. What does the slope on a distance-time graph represent? \_\_\_\_\_
9. According to figure 5, who is the fastest swimmer? \_\_\_\_\_
10. What was the name of the supercontinent? \_\_\_\_\_
11. The crust and the top part of the mantle are called the \_\_\_\_\_.
12. Australia moves north at an average of \_\_\_\_\_  
\_\_\_\_\_.
13. What two measurements involve both a change in speed and direction?  
\_\_\_\_\_
14. A slowing car has a decrease in velocity, which is known as \_\_\_\_\_  
\_\_\_\_\_.
15. \_\_\_\_\_ is the rate of change of velocity.
16. What was the name of the first experimental aircraft carrier?  
\_\_\_\_\_
17. If acceleration is zero, it means an object is moving at a \_\_\_\_\_  
speed.
18. \_\_\_\_\_ use physics laws to design amusement park rides.

19. What happens to the motion of an object when a force is applied to it?  
\_\_\_\_\_
20. What type of force is present in a tug of war match where neither team is moving?  
\_\_\_\_\_
21. What would be the net force if two people were pushing in opposite directions on an object with forces of 13 Newtons and 75 Newtons? \_\_\_\_\_
22. If you push on something and it starts to move, what type of force was applied to it? \_\_\_\_\_
23. An object moving at a constant velocity keeps moving at that velocity unless a/an \_\_\_\_\_ net force acts on it.
24. What is the first law of motion sometimes referred to as? \_\_\_\_\_
25. How long does it take for an airbag to inflate and deflate? \_\_\_\_\_