Physical Science Chapter 2 Review II

Name: _____

1. What is speed? (L1)

2. What is velocity? (state the difference between speed and velocity)

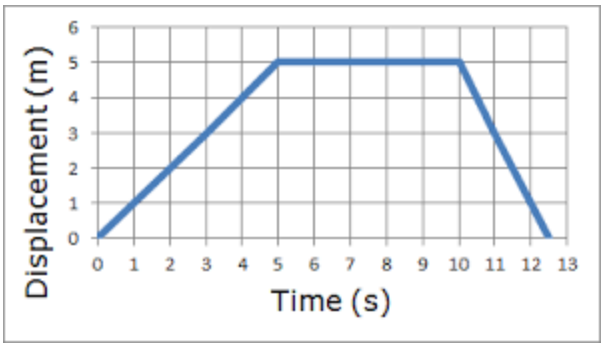
3. Give an example of something that measures instantaneous speed. (L2)

4. Calculate the speed of an airplane traveling 3,000 km in 3.45 h. (L2)

5. How far does a butterfly travel if it flies with a speed of 0.3 m/s and flies for 50 seconds? (L3)

6. A car travels with a speed of 24 m/s for 1100 seconds. How many m does it travel? (L3)

7. Explain how it is possible for your speed to stay the same but your velocity to change. (L3)



8. Explain the motion between 0-5 seconds *Be specific (L3)

9. Explain the motion between 5-10 seconds. *Be specific (L3)

10. Explain the motion between 10-12.5 seconds. *Be specific (L3)

11. What is acceleration? (L1)

12. What do you need know about an object to describe its velocity? (L1)

13. Describe the three ways that an object can show acceleration. (L3)

14. When does an object show positive acceleration? (L2)

15. When does an object show negative acceleration? (L2)

16. On an acceleration graph, what does a horizontal line tell you about the object? (L3)

\

17. Calculate the acceleration of a fish that accelerates from 0.5 m/s to 1.3 m/s in 80 s. (L3)

19. A skier accelerates down a mountain with an acceleration of 1.2 m/s^2. If it takes them 130 s to reach the bottom of the mountain and they started from rest, what velocity does the skier reach? (L3)

20. Suppose velocity is measure in kilometers/hour and time is measure in hours. What is the unit of acceleration?

21. What is the formula used to calculate the speed of an object?