

Name \_\_\_\_\_

**Motion and Speed Web Quest (Lab Make-Up)**

**Part ONE: Go to this following webpage to answer the following questions.**

**[http://www.ducksters.com/science/physics/speed\\_and\\_velocity.php](http://www.ducksters.com/science/physics/speed_and_velocity.php)**

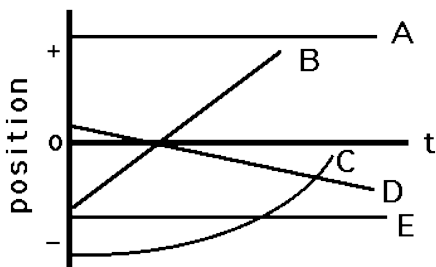
1. What is the formula for speed?
2. How do we measure or think of speed in the United States?
3. In science and physics, what is the standard unit of measure for speed?
4. What is the rate of change in an object's position?
5. What two parts make up velocity?
6. What is the difference between speed and velocity?
7. What is the formula for velocity?
8. What is the standard unit for velocity?
9. What is the difference between instantaneous and average speed? What is the greatest example of an instantaneous speed?
10. What is the fastest possible speed in the universe?
11. Who was the first scientist to measure speed and distance over time?

Part TWO: Go to the website to answer the following to complete the chart below:

[http://camillasenior.homestead.com/motion\\_graphs.pdf](http://camillasenior.homestead.com/motion_graphs.pdf)

Illustrate and label the following motion graphs	
1. DISTANCE-TIME GRAPH	
2. DISTANCE-TIME GRAPH AT REST OR STATIONARY	
3. DISTANCE-TIME GRAPH WITH A SLOW CONSTANT SPEED	
4. DISTANCE-TIME GRAPH WITH A FASTER SPEED	
5. DISTANCE-TIME GRAPH ACCELERATING OR INCREASING IN SPEED	
6. DISTANCE-TIME GRAPH DECELERATING OR DECREASING IN SPEED	
7. DISTANCE-TIME GRAPH RETURNING TO THE STARTING POINT	

PART FOUR: USE THE DIAGRAM TO ANSWER THE FOLLOWING QUESTIONS.



1. Which object(s) is(are) maintaining a state of motion (i.e., maintaining a constant velocity)?
2. Which object(s) is(are) accelerating?
3. Which object(s) is(are) not moving?
4. Which object(s) change(s) its direction?
5. On average, which object is traveling fastest?
6. On average, which moving object is traveling slowest?