

Name _____ Date _____ Hour _____

Physical Science Guided Reading 2-1

Describing Motion

1. Define the following key terms
 - a. Motion

 - b. Displacement

 - c. Speed

2. What is the difference between speed and position?

3. Examine figure 1, how do you know the truck as moved?

4. What is a frame of reference?

5. Examine figure 2, using the x,y coordinate system what are the coordinates of
 - a. The post office?

 - b. The bus?

 - c. The orange car?

6. In what units do we measure distance?

7. A runner travels 50m east, and then 30m west, what is her total distance? What is the total displacement?

8. How is the definition of position in physics different from what we commonly use?

9. When is distance and displacement the same for a runner?

10. Examine figure 4, what is the displacement in picture 1, what is the displacement in picture 2?
What is the displacement in picture 3?

11. List the rules for adding displacements shown in Table 1

12. What two values do we need to know to calculate speed?

13. What is the formula for calculating speed?

14. What SI unit do we use for speed?

15. How do we find average speed?

16. What type of speed does your car's speedometer display?

17. When graphing distance vs Time, which variable goes on the x-axis? Which goes on the y-axis?

18. Examine figure 7, which girl swam the largest distance during practice?

19. Examine figure 8, which girl swam the fastest? How do you know?

20. Which girl took a rest for 10 minutes? Which part of figure 8 represents this time?