

Name: _____

Mr. Willis

Conceptual Physics: _____

Date: _____

Unit II

Motion (Velocity/Acceleration)

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Video: ESPN Speed and Acceleration

Directions: *Complete the following questions as you watch the video.*

1. How do we measure speed? Average Speed = _____
2. What was the time to complete the 100meter race? _____ seconds
3. What was the average speed of the runner? $100\text{meters}/10.23\text{seconds} =$ _____
4. What are the two types of speed? a. _____ b. _____
5. What is used to help examine the runner's instantaneous speed? (The time is divided into small intervals called _____)
6. Did the runner's average speed increase or decrease? _____
7. Does the Speed graph show that the runner was accelerating? _____
8. Acceleration is the rate of change of _____
9. Give the equation for Acceleration = _____
10. What are the units for acceleration? _____