Section 2:

The 8th Grade Physical Sciences Content Area Standards

Motion

- 1. The velocity of an object is the rate of change of its position. As a basis for understanding this core ept:
- a Students know position is defined in relation to some choice of a standard reference point and a set of reference directions.
- b. Students know that average speed is the total distance traveled divided by the total time elapsed and that the speed of an object along the path traveled can vary.
- c.Students know how to solve problems involving distance, time, and average speed.
- d.Students know the velocity of an object must be described by specifying both the direction and the speed of the object.
- e. Students brow changes in velocity may be due to changes in speed, direction, or both.
- f.Students brow how to interpret graphs of position versus time and graphs of speed versus time for motion in a single direction.