Motion Notes

- · Physics begins with a discussion of motion
 - · Motion is a change in the position of an object over time
- · Determining if an object is in motion depends on a reference point
 - · Reference point-a fixed object that can be used to determine if an object is moving
 - Examples:
 - · Street signs are reference points for a moving car
 - · Classrooms are reference points for students moving through a hallway

Describing Motion

- · We can use a variety of words to describe motion
 - Fast, slow, stopped, speeding up, slowing down etc
- · In Physics we need to measure many different things related to motion
- There are 2 types of measurements:
 - Scalar quantaties-are described only by a number and unit
 - Measure things like:
 - Size-3m tall
 - Distance-14Km away
 - Mass-5Kg
 - · Vector quantaties-are described by the number, unit and direction
 - · Measure things like:
 - Velocity-15Km/hr North
 - Acceleration-17 m/s² South
 - Force-27N East
 - Both vector and scaler quantaties are important when studying motion