## One dimensional motion

- One dimensional motion is motion along a straight line with constant or changing speed.
- Motion is described in terms of displacement (x), time (t), velocity (v), and acceleration (a). Velocity is the rate of change of displacement and the acceleration is the rate of change of velocity. The average velocity and average acceleration are defined by the relationships.
- The case of motion in one dimension (one direction) is a good starting point for the description of motion.
- In analyzing the motion of objects, there are four basic parameters to keep track of. These are time, displacement, velocity, and acceleration. Time is a scalar, while the other three are vectors. In 1 dimension, however, it's difficult to see the difference between a scalar and a vector! The difference will be more obvious in 2 dimensions.
- Motion is defined as change in position of a body over time with respect to the surrounding.