

Position and Velocity

Objectives: Students will learn how position relates to constant velocity by predicting positions and velocities of given position vs. time and velocity vs. time graphs. Students will also calculate the slope of position vs. time graph to calculate the velocity. Finally, students will determine position from the equation $x(t) = v_0 t + x_0$.

Background

Any measurement of position, distance, or speed must be made with respect to a reference frame. For example, if you are sitting on a train and someone walks down the aisle, their speed with respect to the train is a few miles per hour, at most. Their speed with respect to the ground is much higher. For today's simulation we will use the cartesian coordinate plane, xy -axis, to orient our frame of reference.

Distance vs. Displacement

Displacement (blue line) is how far the object is from its starting point, regardless of how it got there. Displacement depends on direction and thus, is a vector quantity; it can be a negative, or positive value that indicates its direction and magnitude.

The displacement is written: $\Delta x = x_2 - x_1$

Distance traveled (dashed line) is measured along the actual path. Distance is a length, and is thus a scalar quantity. Distance can be any measure $x \geq 0$ units.



Average Speed vs. Velocity

Speed is how far an object travels in a given time interval

$$\text{average speed} = \frac{\text{distance traveled}}{\text{time elapsed}}$$

Velocity is speed and includes directional information.

$$\text{average velocity} = \frac{\text{displacement}}{\text{time elapsed}} = \frac{\text{final position} - \text{initial position}}{\text{time elapsed}}$$

For constant velocity, non-accelerated motion, we can use the equation $v = \Delta x / \Delta t$ to solve for either position, or velocity, or time, if we know the other quantities.

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