

# Physics Concepts Study Guide

## Distance vs. Displacement

- Distance is the total length of travel
  - Measured in meters
- Displacement is the change in position with direction
  - Measured in meters
  - Displacement = final position - initial position
  - $\Delta x = x_f - x_i$



## Speed and Velocity

- Average Speed is the total distance over time
  - o Measured in meters per second (m/s)
- Average Velocity is the displacement over total time
  - o Measured in meters per second (m/s)
  - o  $V_{avg} = \Delta x / \Delta t = (x_f - x_i) / (t_f - t_i)$
- Instantaneous Velocity is the displacement over time
  - o The velocity at a certain instant of time
  - o Measured in meters per second (m/s)
- \* Note: When velocity is constant, the average velocity is equal to the instantaneous velocity at any time.

## Acceleration

- Average acceleration is the rate of change of velocity with time
  - o Measured in m/s<sup>2</sup>
  - o  $A_{avg} = \Delta v / \Delta t = (v_f - v_i) / (t_f - t_i)$
- Instantaneous Acceleration is the velocity per time
  - o The acceleration at a certain instant of time
  - o Measured in m/s<sup>2</sup>
- Does not depend on mass

## Variations of equations:

$$V_{avg} = \frac{1}{2} (v_i + v_f)$$

$$v_f = v_i + at \text{ (when } t_i = 0\text{)}$$

$$x_f = x_i + v_i t + \frac{1}{2} a t^2$$

$$\Delta x = v_i t + \frac{1}{2} a t^2$$

$$v_f^2 = v_i^2 + 2a(x_f - x_i) \Leftarrow \text{when don't have time}$$

- \* Note: When linear equations are vertical, accelerations will always be 9.81 m/s<sup>2</sup> DOWN
  - When an object is thrown vertically upward then its speed on returning to its original starting point is the same as its initial speed.

## Vectors

- Any quantity that refers to both a magnitude (number) and a direction
  - Displacement and Velocity are examples of vectors
- In projectile launch problems:



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