# Physics Concepts Study Guide

### Distance vs. Displacement

-Distance is the total length of travel

- Measured in meters

-Displacement is the chance in position with direction

- Measured in meters

- Displacement = final position - initial position

$$-\triangle X = X_f - X_i$$

### Speed and Velocity

- Average Speed is the total distance over time
  - Measured in meters per second (m/s)
- Average Velocity is the displacement over total time
  - Measured in meters per second (m/s)
  - $O V_{avg} = \triangle x / \triangle y = (x_f x_i) / (t_f t_i)$
- Instantaneous Velocity is the displacement over time
  - The velocity at a certain instant of time
  - 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
  - Measured in m/s²
  - $O A_{avg} = \triangle V / \triangle t = (V_f V_i) / (t_f t_i)$
- Instantaneous Acceleration is the velocity per time
  - o The acceleration at a certain instant of time
  - Measured in m/s<sup>2</sup>
- Does not depend on mass

### Variations of equations:

$$V_{avg} = \frac{1}{2} (V_i + V_f)$$

$$v_f = v_i + at \text{ (when ti = 0)}$$
  
 $X_f = x_i + v_i t + \frac{1}{2}at^2$ 

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

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

\* Note: When linear equations are vertical, accelerations will always be 9.81 m/s² 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

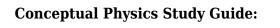
 Any quantity that refers to both a magnitude (number) and a direction

- Displacement and Velocity are examples of vectors
- In projectile launch problems:



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