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/s²
- 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

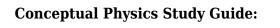
 Any quantity that refers to both a magnitude (number) and a direction

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



Conceptual Physics Study Guide

Michael Brown



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