

# 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:

$$V_{avg} = \frac{1}{2} (V_i + V_f) \qquad V_f = V_i + at \text{ (when } t_i = 0)$$

$$\Delta X = V_i t + \frac{1}{2} at^2 \qquad X_f = X_i + V_i t + \frac{1}{2} at^2$$

$$V_f^2 = V_i^2 + 2a(X_f - X_i) \leftarrow \text{when don't have time}$$

\* 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:



# Conceptual Physics Guide Energy

**William Bolton**



## Conceptual Physics Guide Energy:

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**ENC Focus**, 1999

**El-Hi Textbooks and Serials in Print**, 2003

*Resources in Education*, 1992

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*James Prescott Joule and the Concept of Energy* Henry John Steffens, 1979

**American Journal of Physics**, 2007

*Focus a Magazine for Innovators*, 1999

**An Introductory Guide to EC Competition Law and Practice** Valentine Korah, 1994

National Union Catalog, 1973 Includes entries for maps and atlases

*Subject Guide to Books in Print*, 1993

Announcer, 2004

**Energy**, 1978 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA

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