

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/s²
 - 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/s²
- Does not depend on mass

Variations of equations:

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

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

$$\Delta X = V_i t + \frac{1}{2} at^2 \qquad V_f^2 = V_i^2 + 2a(X_f - X_i) \leftarrow \text{when don't have time}$$

* Note: When linear equations are vertical, accelerations will always be 9.81 m/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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 - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Physics Study Guide Workbook Pages
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
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 - Popular eBook Platforms
 - Features to Look for in an Conceptual Physics Study Guide Workbook Pages
 - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Physics Study Guide Workbook Pages
 - Personalized Recommendations
 - Conceptual Physics Study Guide Workbook Pages User Reviews and Ratings
 - Conceptual Physics Study Guide Workbook Pages and Bestseller Lists

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 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Conceptual Physics Study Guide Workbook Pages
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Conceptual Physics Study Guide Workbook Pages
 - Carving Out Dedicated Reading Time
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 - Fact-Checking eBook Content of Conceptual Physics Study Guide Workbook Pages
 - Distinguishing Credible Sources
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- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

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- Interactive and Gamified eBooks

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