

# Advanced Placement Physics

# Kinematics in One Dimension

**Kinematics** Study of Motion

**Distance** Total distance traveled from start to finish.

**Displacement** Straight line distance between the start point and ending point of the problem.

**Speed** A scalar quantity (no direction specified) that shows the rate that distance  $d$  is covered.

**Instantaneous** The speed at an instant in time. Right now. Your speedometer reading when you glance it at.

**Average** The total distance divided by the total time for the entire trip.

**Constant** If the same speed is maintained over the entire trip

**Velocity** A vector quantity consisting of magnitude and direction. Displacement  $x$  divided by time.

**Acceleration** Change in velocity (change in displacement and/or direction)

## Kinematic Equations

You can only use the constant velocity equation when there is no acceleration. If acceleration is present (Question contains terms such as: starts from rest, final velocity of, accelerates, comes to rest, etc.), then you must use the three Kinematic equations in the highlighted border boxes below.

Speed	Constant Velocity	Average Velocity	Acceleration
$\bar{v}_s = \frac{d}{t}$	$v = \frac{x}{t}$ or $x = vt$	$\bar{v} = \frac{x - x_0}{t}$	$a = \frac{v - v_0}{t}$
$\bar{v} = \frac{v_0 + v}{2}$		<b>Another Way of Looking at Average Velocity</b> One of the four Kinematic Equations. But it is mostly used in conjunction with the above equations to derive the next three equations. Occasionally it is useful in problems.	
$v = v_0 + at$		<b>Velocity</b> Rearranged the acceleration equation from above. Useful for determining $v$ , when $a$ and $t$ are given. However, if any three variables are available and the fourth is needed rearrange this as necessary.	
$x = x_0 + v_0t + \frac{1}{2}at^2$		<b>Position</b> Key equation to determine distance when $a$ is involved. Used extensively in falling body problems. Its derivative is the velocity equation above.	
$v^2 = v_0^2 + 2a(x - x_0)$		<b>When no time is given</b> When $v$ , $a$ , and/or $x$ are known, but no information is given about $t$ , then this can be used to solve for the unknown variable.	

$x_0$  initial position,  $x$  final position,  $v_0$  initial velocity,  $v$  final velocity,  $a$  acceleration,  $t$  time

## Problem Solving Strategy

1. Draw a picture (Mental or on Paper)
2. List known and unknown variables.
  - a) Caution: some may be extraneous, and are not necessary to solve the problem.
  - b) Often either the starting or ending point is at rest, meaning a value of zero.
3. Do necessary conversions.
4. Choose an equation that can be solved with the known variables.
  - a) This equation may or may not be the answer you are looking for.
  - b) It may provide a new variable for use in another equation.
  - c) This may lead to a succession of equations.

**+ or - ????**  $+$ ,  $-$  &  $\bar{\phantom{x}}$  can be used to indicate direction, and/or acceleration (+) or deceleration (-).

**-9.8 m/s<sup>2</sup>** Be careful here. Does this mean the object is decelerating (slowing) or does it mean that the object is moving along a negative (perhaps the  $y$ ) axis? It would depend on the problem. For an object moving on the  $x$  axis it would mean decelerating. For an object falling along the  $y$  axis, due to gravity, it means the object is accelerating, but in the downward direction (-+9.8). In forces it is easier to use 9.8 m/s<sup>2</sup> as a positive number.

# One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide

**A Loxley**



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## **Table of Contents One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide**

1. Understanding the eBook One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - The Rise of Digital Reading One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - Personalized Recommendations
  - One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide User Reviews and Ratings
  - One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide and Bestseller Lists
5. Accessing One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide Free and Paid eBooks
  - One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide Public Domain eBooks
  - One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide eBook Subscription Services

- One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide Budget-Friendly Options
- 6. Navigating One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide Compatibility with Devices
  - One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - Highlighting and Note-Taking One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - Interactive Elements One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
- 8. Staying Engaged with One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
- 9. Balancing eBooks and Physical Books One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - Setting Reading Goals One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - Fact-Checking eBook Content of One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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