

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 $x = vt$	$\bar{v} = \frac{x - x_0}{t}$	$a = \frac{v - v_0}{t}$
$\bar{v} = \frac{v_0 + v}{2}$		Another Way of Looking at Average Velocity 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.	
$v = v_0 + at$		Velocity 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.	
$x = x_0 + v_0 t + \frac{1}{2} at^2$		Position Key equation to determine distance when a is involved. Used extensively in falling body problems. Its derivative is the velocity equation above.	
$v^2 = v_0^2 + 2a(x - x_0)$		When no time is given 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 - ???? " + " & " - " can be used to indicate direction, and/or acceleration (+) or deceleration (-).

-9.8 m/s² 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/s² as a positive number.

One Dimensional Kinematics Ap Physics Unit 1 Test Study Guide

S Ben Porath



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