

# MCAT PHYSICS KINEMATICS

By [LEAH4SCI.COM/MCAT-PHYSICS](http://LEAH4SCI.COM/MCAT-PHYSICS)  
Complete MCAT KINEMATICS video series

Key

$\Delta$  = delta = change = final - initial (f-i)  
 $x$  = distance or displacement  
 $v$  = velocity  
 $a$  = acceleration  
 $t$  = time

4 units to look for in kinematic equations

**x v a t**

kinematic formulas

$$x = x_i + vt$$

$$v_f = v_i + at$$

$$v_f^2 = v_i^2 + 2a\Delta x$$

$$x = v_i t + \frac{1}{2}at^2$$

has units

x v t

v a t

x v a

x a t

missing

a

x

t

$v_f$

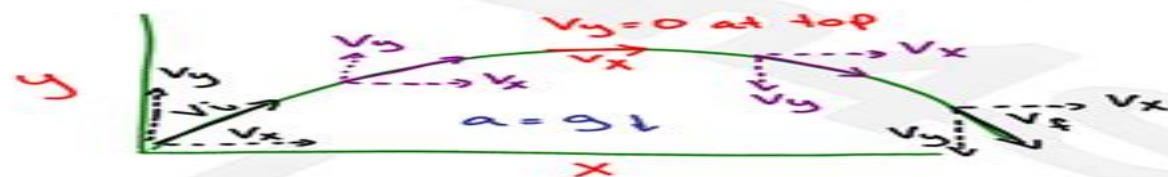
Alternate formats for above equations

$$x_f = x_i + vt \rightarrow x = vt \rightarrow x = v_{avg}t \rightarrow x = \frac{v_i + v_f}{2} \cdot t$$

$$v_f^2 = v_i^2 + 2a\Delta x \rightarrow v_f^2 = v_i^2 + 2ad \leftarrow \text{distance}$$

$$x = v_i t + \frac{1}{2}at^2 \rightarrow x_f = x_i + v_i t + \frac{at^2}{2}$$

## PROJECTILE MOTION



$v_i$  = upward  
 $v_f$  = down  
 $a_y = g$  = down  
 $a_x$  = zero  
 $v_x$  = constant

Kinematic Trigonometry  $\rightarrow$  [LEAH4SCI.COM/MCATMATH](http://LEAH4SCI.COM/MCATMATH)



$$v_x = v \cos \theta$$

$$v_y = v \sin \theta$$

$$v = \sqrt{v_x^2 + v_y^2}$$

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# Kinematics Study Guide

**RJ Shavelson**



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