KINEMATICS

Scalars	Vectors
Magnitude	Magnitude AND Direction

Quantity	SI Unit	Definition
Distance (scalar)	m	Length travelled
Displacement (vector)	m	Length travelled with respect to direction
Speed (scalar)	m/s OR $m\,s^{-1}$	Rate of change of distance
Velocity (vector)	m/s OR $m\,s^{-1}$	Rate of change of displacement
Acceleration (vector)	m/s^2 OR $m\,s^{-2}$	Rate of change of velocity

Formulas		
$v = \frac{\Delta x}{t}$	$s = \frac{d}{t}$	$\Delta x = V_1 t + at^2$
$V_2 = V_1 + at$	$a = \frac{V_F - V_I}{t}$	$\Delta x = \frac{1}{2}(V_1 + V_2)t$
${V_2}^2 = {V_1}^2 + 2a\Delta x$	$V_{12} = V_{1E} - V_{2E}$	$V_{AC} = V_{AB} + V_{BC}$

v = velocity
s = speed
d = distance
Δx = displacement (some may just use 'd')
t = time
a = acceleration
$V_F = V_2$ = Final Velocity
$V_I = V_1$ = Initial Velocity
$a = g = 9.81m/s^2$
$1m/s = 3.6km/h$