KINEMATICS EQUATIONS

Constant Acceleration Summary

Equation	Missing Variable
$v = v_0 + at$	Displacement (Δx)
$\Delta x = v_0 t + \frac{1}{2}at^2$	Final Velocity (v)
$v^2 = v_0^2 + 2a\Delta x$	Time (t)
$\Delta x = \frac{1}{2}(v_0 + v)t$	Acceleration (a)
$\Delta x = vt - \frac{1}{2}at^2$	Initial Velocity (v_0)

Δx : Displacement (m)
t : Time Interval (s)
v_0 : Initial Velocity (m/s)
a : Constant Acceleration (m/sÂ²)
v : Final Velocity (m/s)