Corbettmaths

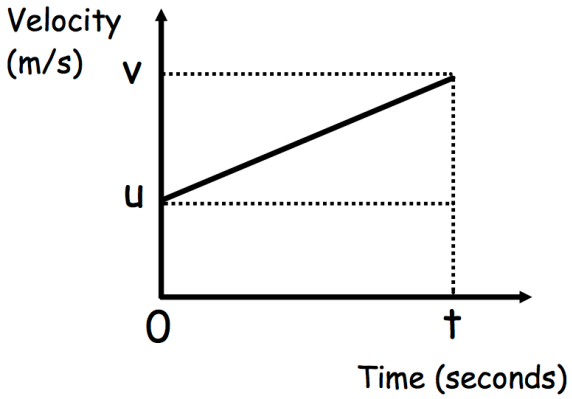
Deriving the Constant Acceleration Formulae

Mechanics

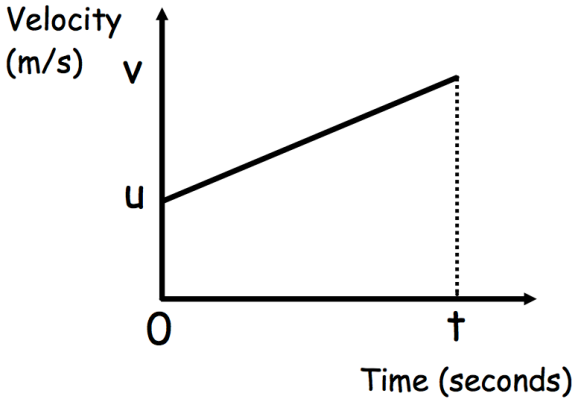
Video Tutorial

s - displacement (m)
u - initial velocity (m/s)
v - final velocity (m/s)
a - acceleration (m/s^2)
t - time (seconds)

$v = u + at$



$s = \frac{1}{2}(u + v)t$



$v^2 = u^2 + 2as$

$s = ut + \frac{1}{2}at^2$

$s = vt - \frac{1}{2}at^2$