

SUVAT

S: Displacement (m)

U: Initial Velocity (ms^{-1})

V: Final Velocity (ms^{-1})

A: Acceleration (ms^{-2})

T: Time (s)

$$v = u + at$$

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

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

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

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

Under gravity $a = g (-9.8ms^{-1})$

On a speed time graph:
Area is distance travelled
Gradient is acceleration