

IPSH SEMESTER 1 FINAL EXAM EQUATION SHEET

Instantaneous speed
 $v = at$

Average speed = $\frac{v_i + v_f}{2}$

Distance of fall = avg.speed x time

$F = ma$

$s = d/t$ $a = \frac{\Delta v}{\Delta t}$

$p = mv$ $I = Ft$

$m_A v_a + m_B v_B = (m_A + m_B)v$

work = Fd power = $\frac{\text{work}}{\text{time}}$

PE = mgh KE = $\frac{1}{2} mv^2$

MA = $\frac{\text{input distance}}{\text{output distance}}$

K = $^{\circ}\text{C} + 273$

$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$