

IPSH MECHANICS EXAM EQUATION SHEET

$$v = d/t$$

$$\bar{v} = \frac{\Delta d}{\Delta t}$$

$$v = at$$

$$d = \frac{1}{2}at^2$$

$$a = \frac{\Delta v}{\Delta t}$$

$$F = ma$$

$$W = ma_g$$

$$\text{work} = Fd$$

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

$$PE = mgh$$

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

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