

# PHYSICS EQUATIONS To Remember!

## Topic 1 – Forces and motion



$$\text{Speed} = \frac{\text{distance}}{\text{time}}$$

$$\text{Acceleration} = \frac{\text{change in speed}}{\text{time}}$$



$$\text{Force} = \frac{\text{mass}}{\text{acceleration}}$$



$$\text{mass} = \frac{\text{weight}}{\text{gravity}}$$



$$\text{Moment} = \text{Force} \times \text{distance from pivot}$$

## Topic 2 – Electricity



$$\text{Current} = \frac{\text{Power}}{\text{Voltage}}$$



$$\text{Resistance} = \frac{\text{Voltage}}{\text{Current}}$$



$$\text{Charge} = \text{Current} \times \text{time}$$

## Topic 3 – Waves



$$\text{wave speed} = \text{freq} \times \text{wave length}$$

$$\text{Refractive index} = \frac{\text{angle of incidence}}{\text{angle of refraction}}$$

$$n = \frac{\sin i}{\sin r}$$



$$\text{Critical angle} = \frac{1}{\text{refractive index}}$$

## Topic 4 – Energy Transfer

$$\text{Efficiency} = \frac{\text{useful energy output}}{\text{useful energy input}}$$

$$\text{Work done} = \text{Force} \times \text{Distance moved}$$



Gravitational potential energy

$$\text{GPE} = m \times g \times h$$

Mass  $\times$  gravitational field strength  $\times$  height

$$\text{KE} = \frac{1}{2} \times m \times v^2$$

$$\text{Kinetic Energy} = \frac{1}{2} \times \text{mass} \times \text{speed}^2$$

## Topic 5 – Solids, Liquids, Gas



$$\text{Density} = \frac{\text{mass}}{\text{volume}}$$



$$\text{Pressure} = \frac{\text{Force}}{\text{Area}}$$

$$P = h \times \rho \times g$$

Pressure difference = height  $\times$  density  $\times$  gravitational field strength

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