

# Physics FORMULAE

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## MECHANICS

avg. speed =  $\frac{v+u}{2}$

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

$v = u + at$

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

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

## THERMAL PHYSICS

$P = \frac{F}{A}$   
(Pa) (N/m<sup>2</sup>)

$P = \rho gh$

$P_1 V_1 = P_2 V_2$

$Q = mc \Delta T$   
(J) (kg) (K)

$Q = mL$   
latent heat

specific latent heat  
(J/kg)

## WAVES

$v = f \lambda$   
(m/s) (Hz) (m)

$f = \frac{1}{T}$   
(Hz) (s)

## OBJECT IN EQUILIBRIUM

$\Sigma$  clockwise moments  
=  $\Sigma$  anti-clockwise moments  
moment on same pivot

=  $\Sigma$  down forces

=  $\Sigma$  upward forces  
(net force = 0)  
moment

## DYNAMIC PHYSICS

$\rho = \frac{m}{V}$   
(kg/m<sup>3</sup>) (kg) (m<sup>3</sup>)

$W = mg$   
(N) (kg)

$F = ma$   
(N) (kg) (m/s<sup>2</sup>)

$W = Fd$   
(J) (N) (m)

$K.E = \frac{1}{2}mv^2$

$P.E = mgh$

thermal e-  
 $\frac{Q}{t}$

$P = \frac{Wd}{t} = \frac{e}{t} = \frac{Q}{t}$   
(W) (J/s) (C/s)

$E = \frac{\text{output power}}{\text{input power}} \times 100$

$T = \frac{F d}{\text{moment of force}}$   
(Nm) (N) (m)

perpendicular distance from pivot

## REFRACTIVE INDEX

$n = \frac{\sin i}{\sin r}$  (air/vacuum)  
(medium)

$\sin c = \frac{1}{n}$   
critical angle

$n = \frac{c}{v}$  (speed of light in vacuum)  
(speed of light in medium)

## ELECTRICITY

$Q = It$   
(C) (A) (s)

$V = IR$   
(V) (A) ( $\Omega$ )

$V = \frac{Wd}{Q}$   
(V) (J) (C)

$W = VIt$   
(J) (V) (A) (s)

$Q = It$

$P = VI$   
(W) (V) (A)

$E = \frac{1}{2}I^2 R t$   
(J) (A) ( $\Omega$ ) (s)

$\frac{V^2 t}{R}$   
(J) (V) (s) ( $\Omega$ )

\* Make sure units are right

## TRANSFORMER EQUATION

$\frac{V_p}{V_s} = \frac{I_s}{I_p}$   
voltage current

primary coil  
secondary coil

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