PHYSICS FORMULAS

QUANTITY	FORMULAS
Average Speed Formula	$S = d/t$
Acceleration Formula	$a = v-u/t$
Density Formula	$P = m/V$
Power Formula	$P = W/t$
Newton's Second Law	$F = m \times a$
Weight Formula	$W = mg$
Pressure Formula	$P = F/A$
Ohm's Law Formula	$V = I \times R$
Kinetic Energy Formula	$E = \frac{1}{2} mv^2$
Frequency Formula	$F = v/\lambda$
Pendulum Formula	$T = 2\pi\sqrt{L/g}$

Fahrenheit Formula	$F = (9/5 \times {}^{\circ}C) + 32$
Work Formula	$W = F \times d \times \cos\theta$
Torque Formula	$T = F \times r \times \sin\theta$
Displacement Formula	$\Delta X = Xf - Xi$
Mass Formula	$F = m \times a$ or $m = F/m$
Amplitude Formula	$x = A \sin(\omega t + \phi)$
Tension Formula	$T = mg + ma$
Surface Charge Density Formula	$\sigma = q / A$
Linear Speed Formula	$V(\text{linear speed}) = \Delta S/\Delta T$
Position Formula	$\Delta x = x2 - x1$
Heat of Fusion Formula	$q = m \times \Delta HF$
Gravity Formula	$F \propto m_1 m_2 / r_2$
Spring Potential Energy Formula	$P.E = 1/2\, k \times x2$

Physics Kinematics Formula	$v^2 = v_o^2 + 2a(x - x_o)$
DC Voltage Drop Formula	$V = I \times R$
Hubble's Law Formula	$v = H_o\, r$
Induced Voltage Formula	$e = -N(d\Phi B/dt)$
Latent Heat Formula	$L = Q / M$
Wavelength Formula	$\lambda = v/f$
Gravitational Force Formula	$F = G(m_1 m_2)/R^2$
Potential Energy Formula	$PE = mgh$
Strain Energy Formula	$U = F\delta / 2$
Friction Force Formula	$f = \mu N$
Cell Potential Formula	$E_0 cell = E_0 red - E_0 oxid$
Shear Modulus Formula	$(\text{shear stress})/(\text{shear strain}) = (F/A)/(x/y)$
Water Pressure Formula	$\text{Water pressure} = \rho\, g\, h$

Refractive Index Formula	$n = c/v$
Centroid Formula	$C = [(x1 + x2 + x3)/ 3, (y1 + y2 + y3)/ 3]$