

$s = vt + s_0$	$v = at + v_0$	$v^2 = 2a(s - s_0) + v_0^2$	$s = \frac{1}{2}at^2 + v_0t + s_0$
$s = vt$	$v = at$	$v^2 = 2as$	$s = \frac{1}{2}at^2$
$\vec{F} = -k\vec{x}$	$\Sigma \vec{F} = m\vec{a}$	$F_g = mg$	$F_f \leq \mu N$
$a^2 + b^2 = c^2$	$\sin = \frac{opp}{hyp}$	$\cos = \frac{adj}{hyp}$	$\tan = \frac{opp}{adj}$
$E_s = \frac{1}{2}kx^2$	$E_K = \frac{1}{2}mv^2$	$E_g = mgh$	$\Sigma E_0 = \Sigma E$
$W = \Delta E$	$P = \frac{\Delta E}{\Delta t}$	$W_{ab} = \int_a^b \vec{F} \cdot d\vec{x}$	$W_{const F} = F_{\parallel} \Delta x$
$E = mc^2$	$E_K = (m - m_0) c^2$	$\Delta E \Delta t \geq \hbar$	$\Delta p \Delta x \geq \hbar$
$\vec{p} = m\vec{v}$	$\vec{F} = \frac{\Delta \vec{p}}{\Delta t}$	$\Sigma \vec{p}_0 = \Sigma \vec{p}$	$\sigma_{\%} = \frac{\sigma}{x} \times 100\%$
$a_c = \frac{v^2}{r}$	$a_c = \frac{4\pi^2 r}{T^2}$	$a_c = \omega^2 r$	$\omega = 2\pi f \ \& \ f = \frac{1}{T}$
$T_s = 2\pi\sqrt{\frac{m}{k}}$	$T_p = 2\pi\sqrt{\frac{\ell}{g}}$	$y = y_{\max} \sin(\omega t + \phi)$	$\Delta E_H = mc\Delta T$
$\frac{R^3}{T^2} = \text{const}$	$F_G = G \frac{m_1 m_2}{r^2}$	$E_G = -G \frac{m_1 m_2}{r}$	$k = \frac{1}{4\pi\epsilon_0}$
$F_E = k \frac{q_1 q_2}{r^2}$	$E_E = -k \frac{q_1 q_2}{r}$	$E_E = qV$	$V = IR$
$\vec{E} = \frac{\vec{F}}{q}$	$E_x = \frac{\Delta V}{\Delta x}$	$I = \frac{\Delta q}{\Delta t}$	$P = VI = I^2 R = \frac{V^2}{R}$
$R_s = R_1 + R_2 + \dots$	$\frac{1}{R_p} = \frac{1}{R_1} + \frac{1}{R_2} + \dots$	$\frac{1}{C_s} = \frac{1}{C_1} + \frac{1}{C_2} + \dots$	$C_p = C_1 + C_2 + \dots$
$C = \frac{Q}{V}$	$C = \epsilon_0 \frac{A}{d}$	$F = qvB_{\perp}$	$F = qvB_{\perp} = I\ell B_{\perp}$
$v = f\lambda$	$E_{\gamma} = hf$	$\lambda = h/p$	$m\lambda = d \sin \theta$
$v = \frac{c}{n}$	$n_1 \sin(\theta_1) = n_2 \sin(\theta_2)$	$\lambda_{closed} = \frac{2L}{n}, \ n = 1, 2, 3.$	$\lambda_{open} = \frac{4L}{n}, \ n = 1, 3, 5 \dots$