Formulas
(you need very few of these!!)

$x = x_0 + v_0 t + \dfrac{1}{2} a_x t^2$	$D = \dfrac{1}{2} C\rho A v^2$	$W = \int_{\bar{x}_i}^{\bar{x}_f} \vec{F}(x) \cdot d\vec{x}$	$W = \vec{F} \cdot \vec{x}$
$\vec{A} \cdot \vec{B} = \lvert A \rvert \lvert B \rvert \cos\theta$	$\vec{a} \times \vec{b} = \lvert a \rvert \lvert b \rvert \sin\phi \perp$ to both		$x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
$\sin\theta = \dfrac{o}{h}$	$\cos\theta = \dfrac{a}{h}$	$\tan\theta = \dfrac{o}{a}$	
$\vec{r} = \vec{r}_0 + \vec{v}_0 t + \dfrac{1}{2}\vec{a}\, t^2$	$\vec{v} = \vec{v}_0 + \vec{a}t$	$\vec{v}^2 = \vec{v}_0^{\,2} + 2\vec{a}(\vec{r} - \vec{r}_0)$	
$y = (\tan\theta)x - \dfrac{gx^2}{2(v_0 \cos\theta_0)^2}$ €		$a_r = \dfrac{v_t^2}{r}$	$R = \dfrac{v^2}{g}\sin(2\theta)$
$\sum \vec{F} = m\vec{a}$		$f_s = \mu_s N, f_k = \mu_k N$	$F_s = -kx$
$U_g = mgh$	$W_s = -\dfrac{1}{2}kx^2$	$KE = \dfrac{1}{2}mv^2$	$P = \dfrac{dW}{dt}$
$\sin 30° = 0.5 = \cos 60°, \cos 30° = 0.866 = \sin 60°$			$\sin 45° = 0.707 = \cos 45°$
use $g = 10\,\dfrac{m}{\sec^2}$,	$\tan 45° = 1$	$\tan 30° \approx 0.5$	
$C = 2\pi r$ $\quad A = \pi r^2$	$V = \dfrac{4}{3}\pi r^3$	$A_{sphere} = 4\pi r^2$	$A_{cylinder} = 2\pi r h$
$v = \dfrac{dx}{dt}$	$a = \dfrac{dv}{dt}$	$T = \dfrac{2\pi}{\omega}$	