

	Equations
Hooke's Law	$F = -kx$
Angular Frequency (rad/s)	$\omega = \sqrt{k/m}$
Frequency (cycles/s)	$f = \frac{\omega}{2\pi} = \frac{1}{2\pi} \sqrt{k/m}$
Period (seconds)	$T = \frac{2\pi}{\omega} = \frac{1}{f} = 2\pi \sqrt{m/k}$
Position, Velocity, Acceleration Equations for a Spring-Mass System	$x = A * \cos(\omega t + \phi)$ $v = -A\omega * \sin(\omega t + \phi)$ $a = -A\omega^2 * \cos(\omega t + \phi)$
Energy Equations for Horizontal Spring-Mass System	$TME = PE_{spring} + KE \quad , \quad TME = \frac{1}{2}kx^2 + \frac{1}{2}mv^2$ $\frac{1}{2}kA^2 = \frac{1}{2}mv_{max}^2$
Energy Equations for Vertical Spring-Mass System	$TME = PE_{spring} + PE_{gravity} + KE$ $TME = \frac{1}{2}kx^2 + mgh + \frac{1}{2}mv^2 \quad , \quad \frac{1}{2}kA^2 = \frac{1}{2}mv_{max}^2$

# Physics In A Single Equation

**SB Merriam**



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