

# Conceptual Physics Equation Sheet

## NEWTONIAN MECHANICS

$$v_2 = v_1 + at$$

$$x_2 = x_1 + v_1 t + \frac{1}{2} at^2$$

$$v_2^2 = v_1^2 + 2a(x_2 - x_1)$$

$$R = \frac{v_1^2 \sin 2\theta}{g}$$

$$F = ma$$

$$Pr = \frac{F}{A}$$

$$p = mv$$

$$J = Ft$$

$$J = \Delta p$$

$$m_a v_{1a} + m_b v_{1b} = m_a v_{2a} + m_b v_{2b}$$

$$m_a v_{1a} + m_b v_{1b} = (m_a + m_b) v_2$$

$$W = Fd$$

$$P = \frac{W}{t}$$

$$PE = mgh$$

$$KE = \frac{1}{2} mv^2$$

$$TME = PE + KE$$

$$W = \Delta E$$

$$a_c = \frac{v^2}{r}$$

$$F_c = ma_c$$

$$F_G = \frac{Gm_1m_2}{d^2}$$

$A$  = area

$a$  = acceleration

$a_c$  = centripetal acceleration

$d$  = distance

$E$  = energy

$F$  = force

$F_c$  = centripetal force

$F_G$  = gravitational force

$G$  = Universal gravitational constant

$g$  = acceleration due to gravity

$h$  = height

$J$  = impulse

$KE$  = kinetic energy

$m$  = mass

$P$  = power

$p$  = momentum

$PE$  = potential energy

$Pr$  = pressure

$r$  = radius

$R$  = range

$t$  = time

$TME$  = total mechanical energy

$v$  = velocity

$v_1$  = initial velocity

$v_2$  = final velocity

$W$  = work

$x_1$  = initial position

$x_2$  = final position

$\theta$  = angle

$\Delta$  = delta means "change in"

## WAVES AND OPTICS

$$T = 2\pi\sqrt{\frac{L}{g}}$$

$$f = \frac{1}{2\pi}\sqrt{\frac{g}{L}}$$

$$T = \frac{1}{f}$$

$$f = \frac{1}{T}$$

$$f = \frac{v}{\lambda}$$

$$v = 332 + .6T$$

$$f_o = f_s \left( \frac{v}{v \pm v_s} \right)$$

$$\text{beat frequency} = |f_1 - f_2|$$

$$c = \frac{d}{t}$$

$$n = \frac{c}{v}$$

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$\sin \theta_c = \frac{n_2}{n_1}$$

$$\frac{1}{d_i} + \frac{1}{d_o} = \frac{1}{f}$$

$$M = \frac{h_i}{h_o} = -\frac{d_i}{d_o}$$

$$f = \frac{R}{2}$$

$c$  = speed of light

$d$  = distance

$d_i$  = image distance

$d_o$  = object distance

$f$  = frequency or focal length

$f_s$  = frequency of source

$f_o$  = frequency observed

$g$  = acceleration due to gravity

$h_i$  = image height

$h_o$  = object height

$L$  = length of pendulum

$M$  = magnification

$n$  = index of refraction

$R$  = radius of curvature

$T$  = period or temperature

$t$  = time

$v$  = speed of wave

$v_s$  = speed of source

$\theta_1$  = angle of incidence

$\theta_2$  = angle of refraction

$\theta_c$  = critical angle

# Conceptual Physics Chapter 2 reflection Refraction

**Jae R. Ballif, William E. Dibble**



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