

## Physics 100 Equations

$$d = Vt$$

$$F_{net} = ma$$

$$p = mV$$

$$\omega = \frac{\vartheta}{t}$$

$$\rho = \frac{m}{V}$$

$$V_{av} = \frac{d}{t}$$

$$W = mg$$

$$Ft = p_f - p_i$$

$$I_{disk} = \frac{mr^2}{2}$$

$$p = \rho gh$$

$$a = \frac{V_f - V_i}{t}$$

$$F_{grav} = G \frac{m_1 m_2}{r^2}$$

$$KE = \frac{mV^2}{2}$$

$$KE = \frac{I\omega^2}{2}$$

$$F_{buoy} = \rho g V$$

$$d = \frac{gt^2}{2}$$

$$V_{esc} = \sqrt{\frac{2GM}{R}}$$

$$PE = mgh$$

$$L = I\omega$$

$$F_1 A_1 = F_2 A_2$$

$$PE = \frac{kx^2}{2}$$

$$G = 6.67 \cdot 10^{-11} \frac{Nm^2}{kg^2}$$

$$g \approx 10 \frac{m}{s^2}$$

$$N_A = 6 \cdot 10^{23} \frac{1}{mol}$$

$$\rho = 1000 \frac{kg}{m^3}$$