

Physics Formula Sheet

Chapter 1: Introduction: The Nature of Science and Physics

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\text{Radius of Earth} = 6.38 \times 10^6 \text{ m}$$

$$\text{Mass of Earth} = 5.98 \times 10^{24} \text{ kg}$$

$$c = 3.00 \times 10^8 \text{ m/s}$$

$$G = 6.673 \times 10^{-11} \frac{\text{Nm}^2}{\text{kg}^2}$$

$$N_A = 6.02 \times 10^{23}$$

$$k = 1.38 \times 10^{-23} \text{ J/K}$$

$$R = 8.31 \text{ J/mol} \cdot \text{K}$$

$$\sigma = 5.67 \times 10^{-8} \text{ W/(m}^2 \cdot \text{K}^4)$$

$$k = 8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2$$

$$q_e = -1.60 \times 10^{-19} \text{ C}$$

$$\epsilon_0 = 8.85 \times 10^{-12} \text{ C}^2/(\text{N} \cdot \text{m}^2)$$

$$\mu_0 = 4\pi \times 10^{-7} \text{ T} \cdot \text{m/A}$$

$$h = 6.63 \times 10^{-34} \text{ J} \cdot \text{s}$$

$$m_e = 9.11 \times 10^{-31} \text{ kg}$$

$$m_p = 1.6726 \times 10^{-27} \text{ kg}$$

$$m_n = 1.6749 \times 10^{-27} \text{ kg}$$

$$\text{amu} = 1.6605 \times 10^{-27} \text{ kg}$$

$$\text{Density of water} = 1000 \frac{\text{kg}}{\text{m}^3}$$

Chapter 2: Kinematics

$$\Delta x = x_f - x_0$$

$$\Delta t = t_f - t_0$$

$$\bar{v} = \frac{\Delta x}{\Delta t} = \frac{x_f - x_0}{t_f - t_0}$$

$$\bar{a} = \frac{\Delta v}{\Delta t} = \frac{v_f - v_0}{t_f - t_0}$$

$$x = x_0 + \bar{v}t$$

$$\bar{v} = \frac{v_0 + v}{2}$$

$$v = v_0 + at$$

$$x = x_0 + v_0 t + \frac{1}{2} at^2$$

$$v^2 = v_0^2 + 2a(x - x_0)$$

$$g = 9.80 \frac{\text{m}}{\text{s}^2}$$

Chapter 3: Two-Dimensional Kinematics

$$A_x = A \cos \theta$$

$$A_y = A \sin \theta$$

$$R_x = A_x + B_x$$

$$R_y = A_y + B_y$$

$$R = \sqrt{R_x^2 + R_y^2}$$

$$\theta = \tan^{-1} \frac{R_y}{R_x}$$

$$h = \frac{mv_y^2}{2g}$$

$$R = \frac{v_0^2 \sin 2\theta_0}{g}$$

$$v_x = v \cos \theta$$

$$v_y = v \sin \theta$$

$$v = \sqrt{v_x^2 + v_y^2}$$

$$\theta = \tan^{-1} \frac{v_y}{v_x}$$

Chapter 4: Dynamics: Forces and Newton's Laws of Motion

$$F_{\text{net}} = ma$$

$$w = mg$$

Chapter 5: Further Applications of Newton's Laws: Friction, Drag, and Elasticity

$$f_s \leq \mu_s N$$

$$f_k = \mu_k N$$

$$F_D = \frac{1}{2} C_D A v^2$$

$$F_s = 6\pi\eta r v$$

$$F = k\Delta x$$

$$\Delta L = \frac{1F}{YA} L_0$$

$$\text{stress} = \frac{F}{A}$$

$$\text{strain} = \frac{\Delta L}{L_0}$$

$$\text{stress} = Y \times \text{strain}$$

$$\Delta x = \frac{1F}{SA} L_0$$

$$\Delta V = \frac{1F}{BA} V_0$$

Chapter 6: Uniform Circular Motion and Gravitation

$$\Delta \theta = \frac{\Delta s}{r}$$

$$2\pi \text{ rad} = 360^\circ = 1 \text{ revolution}$$

$$\omega = \frac{\Delta \theta}{\Delta t}$$

$$v = r\omega$$

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

$$a_c = r\omega^2$$

$$F_c = ma_c$$

$$F_c = \frac{mv^2}{r}$$

$$\tan \theta = \frac{v^2}{rg}$$

$$F_c = mr\omega^2$$

$$F = G \frac{mM}{r^2}$$

$$g = \frac{GM}{r^2}$$

$$\frac{T_1^2}{r_1^3} = \frac{T_2^2}{r_2^3}$$

$$T^2 = \frac{4\pi^2}{GM} r^3$$

$$\frac{r^3}{T^2} = \frac{G}{4\pi^2} M$$

Chapter 7: Work, Energy, and Energy Resources

$$W = fd \cos \theta$$

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

$$W_{\text{net}} = \frac{1}{2} mv_f^2 - \frac{1}{2} mv_0^2$$

$$PE_g = mgh$$

$$PE_s = \frac{1}{2} kx^2$$

$$KE_0 + PE_0 = KE_f + PE_f$$

$$KE_0 + PE_0 + W_{\text{net}} = KE_f + PE_f$$

$$Eff = \frac{W_{\text{out}}}{E_{\text{in}}}$$

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

Chapter 8: Linear Momentum and Collisions

$$p = mv$$

$$\Delta p = F_{\text{net}} \Delta t$$

$$p_0 = p_f$$

$$m_1 v_{01} + m_2 v_{02} = m_1 v_{f1} + m_2 v_{f2}$$

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PT Brinkman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the PT Brinkman text.

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