

MCAT EQUATIONS & CONSTANTS

Gravity

$$F_{grav} = mg$$

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

$$g = G \frac{M}{r^2}$$

$$g_{earth} \approx 10 \frac{m}{s^2}$$

Kinematics

Constant Acceleration

$$v = v_0 + at$$

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

Projectile Motion

Horizontal Component

$$x = v_{0x} t$$

$$v_x = v_{0x}$$

$$a_x = 0$$

Vertical Component

$$y = v_{0y} t - \frac{1}{2} gt^2$$

$$v_y = v_{0y} - gt$$

$$a_y = -g$$

Friction

$$F_{static} \leq \mu_s F_N$$

$$F_{kinetic} = \mu_k F_N$$

Inclined Plane

θ = angle of incline

$$F_{g,parallel} = mg \sin \theta$$

$$F_{g,perpendicular} = mg \cos \theta$$

Work, Energy, and Power

$$\text{Work: } W = Fd \cos \theta$$

$$\text{Kinetic Energy: } KE = \frac{1}{2} mv^2$$

$$\text{Work-Energy Theorem: } W_{net} = \Delta KE$$

$$\text{Power (P)} = \frac{W}{t} = Fv$$

Gravitational Potential

$$\text{Energy: } PE_{grav} = mgh$$

$$\text{Total Mechanical Energy: } E = KE + PE$$

Circular Motion

$$\text{Centripetal Acceleration: } a_c = \frac{v^2}{r}$$

$$\text{Centripetal Force: } F_c = ma_c = m \frac{v^2}{r}$$

Torque

$$\tau = rF \sin \theta$$

Thermodynamics

$$\text{First Law: } \Delta E = Q - W$$

$$\text{Work: } W = P \Delta V$$

Heat Capacity:

$$Q = C \Delta T$$

Specific Heat Capacity

$$Q = mc \Delta T$$

Fluids

$$\text{Density: } \rho = \frac{\text{mass}}{\text{volume}} = \frac{m}{V}$$

$$\text{Specific Gravity: } SG = \frac{\rho}{\rho_{water}}$$

$$\text{Pressure: } P = \frac{F}{A}$$

$$\text{Gauge Pressure: } P_{gauge} = P - P_{atm}$$

$$\text{Archimedes' Principle: } F_{buoyant} =$$

$$\rho_{fluid} V_{submerged}$$

$$\text{Pascal's Law: } \frac{F_1}{A_1} = \frac{F_2}{A_2}$$

$$\text{Continuity Equation: } A_1 v_1 = A_2 v_2$$

$$\text{Flow Rate: } Q = Av$$



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