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 $v = v_0 + at$ $d = v_0t + \frac{1}{2}at^2$

Projectile Motion

Horizontal Component $x = v_{0x}t$ $v_x = v_{0x}$ $a_x = 0$

Vertical Component

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

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

$$a_y = -g$$

Friction

 $F_{f,static} \leq \mu_s F_N$ $F_{f,kinetic} = \mu_k F_N$

Inclined Plane

 $\theta = angle \ of \ incline$ $F_{g,parallel} = mgsin\theta$ $F_{g,perpendicular} = mgcos\theta$

Work, Energy, and Power

Work: $W = Fdcos\theta$ Kinetic Energy: $KE = \frac{1}{2}mv^2$ Work-Energy Theorem: $W_{net} = \Delta KE$ $Power (P) = \frac{W}{t} = Fv$ Gravitational Potential Energy: $PE_{grav} = mgh$ Total Mechanical Energy: E = KE + PE

Circular Motion

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

Torque

 $\tau = rFsin\theta$

Thermodynamics

Flow Rate: Q = Av

First Law: $\Delta E = Q - W$ Work: $W = P\Delta V$ Heat Capacity: $Q = C\Delta T$ Specific Heat Capacity $Q = mc\Delta T$

Fluids Density: $\rho = \frac{maxx}{volume} = \frac{m}{V}$

Specific Gravity: $SG = \frac{P}{P_{water}}$ Pressure: $P = \frac{F}{A}$ Gauge Pressure: $P_{gauge} = P - P_{atm}$ Archimedes' Principle: $F_{buoyant} = P_{fbuid}V_{submerged}g$ Pascal's Law: $\frac{F_1}{A_1} = \frac{F_2}{A_2}$ Continuity Equation: $A_1v_1 = A_2v_2$

The Mcat Physics

E Staff

The Mcat Physics:

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