

SPEED OF LIGHT

$$c = \frac{1}{\sqrt{\mu_0 \epsilon_0}} = 3.0 \times 10^8 \text{ m/s}$$

MASS-ENERGY EQUIVALENCE

$$E = mc^2$$

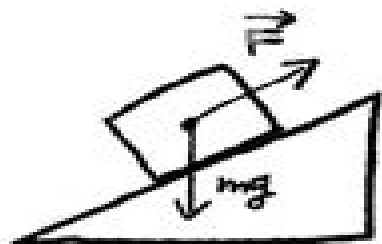
ACCELERATION

$$a = \frac{\Delta v}{\Delta t}$$

VELOCITY

$$v = v_0 + at$$

$$\omega = \omega_0 + \alpha t$$



GRAVITATIONAL CONSTANT

$$G = 6.67 \times 10^{-11} (\text{N} \cdot \text{m}^2) / \text{kg}^2$$

$$g = 9.8 \text{ m/s}^2$$

HEAT

$$Q = mc \Delta T$$

HEAT CHANGE

$$Q = Lm$$

FORCE

$$\vec{F}_{\text{net}} = m\vec{a}$$

$$\vec{F}_{\text{net}} = \frac{d\vec{p}}{dt}$$

$$P = \frac{dW}{dt}$$

GRAVITY

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

PERIOD OF OSCILLATION

$$T = 2\pi \sqrt{\frac{m}{k}}$$

MAGNETIC FLUX

$$\Phi_B = \int \vec{B} \cdot d\vec{A}$$

WORK DONE BY EXPANDING GAS

$$W = \int p dV$$

Physical Science Formulas And Equations

**Alexander Fridman, Lawrence A.
Kennedy**



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