

SPH3U – Grade 11 Physics Formula Sheet

Prefixes

$$\eta = \times 10^{-9} \quad \mu = \times 10^{-6} \quad m = \times 10^{-3} \quad k = \times 10^3 \quad M = \times 10^6 \quad G = \times 10^9$$

Trigonometry

Quadratic Equation

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

Right Angle Triangle (SOH CAH TOA & Pythagorean Theorem)

$$\sin\theta = \frac{\text{opposite}}{\text{hypotenuse}} \quad \cos\theta = \frac{\text{adjacent}}{\text{hypotenuse}} \quad \tan\theta = \frac{\text{opposite}}{\text{adjacent}} \quad c^2 = a^2 + b^2$$

Non-Right Angle Triangle (Sine & Cosine Law)

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} \quad \begin{aligned} a^2 &= b^2 + c^2 - 2 \cdot b \cdot c \cdot \cos A \\ b^2 &= a^2 + c^2 - 2 \cdot a \cdot c \cdot \cos B \\ c^2 &= a^2 + b^2 - 2 \cdot a \cdot b \cdot \cos C \end{aligned}$$

Error

$$\% \text{ Error} = \frac{|\text{measured value} - \text{accepted value}|}{\text{accepted value}} \times 100\% \quad \% \text{ Difference} = \frac{|\text{value}_1 - \text{value}_2|}{\left(\frac{\text{value}_1 + \text{value}_2}{2}\right)} \times 100\%$$

Kinematics

$$\begin{aligned} \vec{v}_{\text{avg}} &= \frac{\Delta \vec{d}}{\Delta t} = \frac{\vec{d}_f - \vec{d}_i}{t_f - t_i} & \Delta \vec{d} &= \frac{(\vec{v}_f + \vec{v}_i)}{2} \Delta t \\ \vec{a}_{\text{avg}} &= \frac{\Delta \vec{v}}{\Delta t} = \frac{\vec{v}_f - \vec{v}_i}{t_f - t_i} & \vec{v}_f &= \vec{v}_i + \vec{a} \Delta t \\ \vec{a}_g &= 9.8 \frac{\text{m}}{\text{s}^2} [\text{down}] & (\vec{v}_f)^2 &= (\vec{v}_i)^2 + 2\vec{a}\Delta d \\ & & \Delta \vec{d} &= \vec{v}_i \Delta t + \frac{1}{2} \vec{a} (\Delta t)^2 \\ & & \Delta \vec{d} &= \vec{v}_f \Delta t - \frac{1}{2} \vec{a} (\Delta t)^2 \end{aligned}$$

Dynamics (Forces)

$$\begin{aligned} \vec{F}_{\text{net}} &= \sum \text{Forces} & \vec{F}_{\text{net}} &= m\vec{a} & \vec{F}_g &= m\vec{g} & \vec{g} &= 9.8 \frac{\text{N}}{\text{kg}} [\text{down}] \\ F_k &= \mu_k F_N & F_s &= \mu_s F_N & F &= \frac{Gm_1 m_2}{d^2} & G &= 6.67 \times 10^{-11} \frac{\text{N} \cdot \text{m}^2}{\text{kg}^2} \end{aligned}$$

Scope Physcs P2014 Grade 11

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