

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)

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

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X-kit Fet G11 Phys Science Physics Long, C,2009 **School and Society** ,1924 **Parliamentary Papers** Great Britain. Parliament. House of Commons,1920 **Oswaal ICSE Question Bank Chapterwise & Topicwise Solved Papers Class 10 English Paper-I For Exam 2025** Oswaal Editorial Board,2024-08-06 Elevate Your Performance Surpassing the

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National Research Council to evaluate the statistics on the supply and demand for science and mathematics teachers concludes that the available data are inadequate and presents recommendations for improved data and further research No index Acidic paper Annotation copyrighted by Book News Inc Portland OR **Statistics of Education** Great Britain. Ministry of Education,1979 *Technical Publications Announcements with Indexes* United States. National Aeronautics and Space Administration,1962 **Oswaal SSC Stenographer Grade C & D 15 Year's Solved Papers | General Intelligence | General Awareness | Reasoning | Year-wise | 2017 - 2023 | For 2024 Exam** Oswaal Editorial Board,2024-02-03 Oswaal SSC Stenographer Grade C D 15 Year s Solved Papers General Intelligence General Awareness Reasoning Year wise 2017 2023 For 2024 Exam **The Electrician** ,1917 **Rare Earth Frontiers** Julie M. Klinger,2018-01-15 Rare Earth Frontiers is a work of human geography that serves to demystify the powerful elements that make possible the miniaturization of electronics green energy and medical technologies and essential telecommunications and defense systems Julie Michelle Klinger draws attention to the fact that the rare earths we rely on most are as common as copper or lead and this means the implications of their extraction are global Klinger excavates the rich historical origins and ongoing ramifications of the quest to mine rare earths in ever more impossible places Klinger writes about the devastating damage to lives and the environment caused by the exploitation of rare earths She demonstrates in human terms how scarcity myths have been conscripted into diverse geopolitical campaigns that use rare earth mining as a pretext to capture spaces that have historically fallen beyond the grasp of centralized power These include legally and logistically forbidding locations in the Amazon Greenland and Afghanistan and on the Moon Drawing on ethnographic archival and interview data gathered in local languages and offering possible solutions to the problems it documents this book examines the production of the rare earth frontier as a place a concept and a zone of contestation sacrifice and transformation *Grade Teacher* ,1929 **Statistics of Education** Great Britain. Department of Education and Science,1979

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