Fold on dotted lines

Chemistry

$n = \frac{\text{grams}}{\text{MM}}$

$N = \frac{\text{equ}}{\text{volume of solution}}$

$KE_A = \frac{1}{2} m_A v_A^2$

$\text{Max \# of electrons} = 2n^2$

$q = \Delta H$

$\%_A = \frac{MM_A}{MM_{Total}} \bullet 100$

$m = \frac{\text{moles of solute}}{\text{kilogram of solvent}}$

$\frac{rate_A}{rate_B} = \frac{\sqrt{MM_B}}{\sqrt{MM_A}}$

$\text{Dipole Moment} = q \cdot d$

$\Delta G = \Delta H - T\Delta S$

$\frac{\%_A}{1\ MM_A} = \text{ratio of } n_A$

$x = \frac{\text{moles of solute}}{\text{total moles of solution}}$

$PV = nRT$

$\Delta T_f = k_f m i$

$\Delta T_b = k_b m i$

$\Delta G = -nFE$

$6.022 \times 10^{23} \text{ things} = 1 \text{ mol}$

$ppm = x \times 10^6$

$P_{total} = P_1 + P_2 + P_n$

$k = Ae^{\left(\frac{-E_A}{RT}\right)}$

$K_{eq} = \frac{[C]^c[D]^d}{[A]^a[B]^b}$

$M = \frac{\text{moles of solute}}{\text{volume of soln}}$

$\% \text{ Yield} = \frac{\text{A Yield}}{\text{T Yield}} \times 100$

$\frac{\% n_1}{100} = \frac{n_1}{n_{total}} = \frac{P_1}{P_{total}}$

$Rate = k\ [B]^n$

$pH = pK_a + \log\left(\frac{A^-}{HA}\right)$

$M_1V_1 = M_2V_2$

$q = MC\Delta T$

Physics

$s = \frac{\text{distance}}{\Delta \text{ time}} = \frac{(s_o + s_f)}{2}$

$\text{Friction}_K = F_N \bullet \mu_K$

$\text{Friction}_S \leq F_N \bullet \mu_s$

$T = 2\pi\sqrt{\frac{L}{g}}$

$\omega = \sqrt{\frac{g}{L}}$

$c = \lambda f$

$f_{beat} = |f_1 - f_2|$

$MA = \frac{F_{out}}{F_{in}}$

$c = P + Dgy + \frac{Dv^2}{2}$

$v = \frac{\Delta \text{ displacement}}{\Delta \text{ time}} = \frac{(v_o + v_f)}{2}$

$F = \frac{mv^2}{r}$

$a_c = \frac{v^2}{r}$

$\Delta L = \alpha L_o \Delta T$

$\Delta A = \gamma A_o \Delta T$

$\Delta V = \beta V_o \Delta T$

$dB = 10 \log\left(\frac{I}{I_o}\right)$

$E = \frac{W_{out}}{W_{in}}$

$YM = \frac{\text{Stress}}{\text{Strain}}$

$a = \frac{\Delta \text{ velocity}}{\Delta \text{ time}} = \frac{(a_o + a_f)}{2}$

$Work = F \bullet d$

$Q = A\ D\ v = c$

$E = k\frac{q}{r^2}$

$V = k\frac{q}{r}$

$F_E = qE$

$v_f = v_o + at$

$v_f^2 = v_o^2 + 2a\Delta x$

$\Delta x = v_o t + .5\ at^2$

$\Delta E_K = W$

$P = \frac{\text{Energy}}{\text{time}}$

$SG = \frac{D_{substance}}{D_{water}}$

$P_{average} = \frac{\text{work}}{\text{time}} = F_{net}\ v$

$I = \frac{\text{Power}}{SA}$

$SG = \frac{\% \text{ below water}}{100}$

$Work = qE\Delta x$

$F = -k\Delta x$

$R = \frac{D\ L}{A}$

$\sum F = 0$

$\sum F = ma$

$Work = .5\ k\Delta x^2$

$p = mv$

$\frac{\Delta f}{f_s} = \frac{v}{c}$

$\frac{\Delta \lambda}{\lambda_s} = \frac{v}{c}$

$F_B = D_{liquid} V_{object} g$

$F = qvB = BIL$

$F_g = \frac{Gm_1m_2}{r^2}$

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

$\omega = \sqrt{\frac{k}{m}}$

$p_{final} = p_{initial}$

$i = \Delta p = Ft$

$\tau = (F \sin \theta) r$

$P = \frac{F}{A}$

$P = Dgy$

$P = I^2R$

Organic Chemistry