

WAVES, LIGHT AND SOUND

$v = f \lambda$		$T = \frac{1}{f}$
$E = hf$	$E = \frac{hc}{\lambda}$	$E = W_f + \frac{1}{2}mv^2$
$f_o = \left(\frac{v}{v - v_s} \right) f_s \quad \text{or} \quad f_o = \left(\frac{v}{v + v_s} \right) f_s$		

ELECTROMAGNETISM

$emf = -N \frac{\Delta \Phi}{\Delta t}$

ELECTRIC CIRCUITS

$Q = I \Delta t$	$R = \frac{V}{I}$
$P = VI = I^2 R = \frac{V^2}{R}$	$V = \frac{W}{Q}$
$R = R_1 + R_2 + \dots$	$\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2} + \dots$
$C = \frac{Q}{V} \quad C = \frac{\epsilon_0 A}{d}$	$emf = I(R + r)$

TABLE 3 CHEMISTRY FORMULAE

$n = \frac{m}{M}$ $c = \frac{n}{V}$	$R_p/R_{\text{cathode}} = R_{\text{anode}}/R_{\text{cathode}}$ $R_p/R_{\text{anode}} = R_{\text{cathode}}/R_{\text{anode}}$
$W = nQ$ $Q = nF$	$K_w = [H^+][OH^-] = 10^{-14}$ $\approx 10^{-14} \text{ mol dm}^{-3}$

Ieb Chemistry Exemplar 2014

Kevin Smith



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