

## 2APHY and 2BPHY: Formulae and Constants Sheet

<i><b>MOTION AND FORCE</b></i>		<i><b>ELECTRICAL FUNDAMENTALS</b></i>	
<i><b>Concept</b></i>	<i><b>Formula</b></i>	<i><b>Concept</b></i>	<i><b>Formula</b></i>
<i>Velocity (ave)</i>	$V_{av} = \frac{s}{t} \text{ or } = \frac{v+u}{2}$	<i>Force between charged particles</i>	$F = \frac{kq_1q_2}{d^2}$
<i>Speed</i>	$\text{speed} = \frac{\text{distance}}{t}$	<i>Electrical charge</i>	$q = It$
<i>Acceleration</i>	$a = \frac{v-u}{t}$	<i>Ohm's Law</i>	$V = IR$
<i>Newton's Equations of Motion</i>	$s = ut + \frac{1}{2}at^2$ $v^2 = u^2 + 2as$ $v = u + at$	<i>Work</i>	$\text{work} = qV = VIt$
<i>Force</i>	$F = ma$	<i>Power</i>	$P = VI = I^2R = \frac{V^2}{R}$
<i>Impulse</i>	$\text{Impulse} = Ft$	<i>Resistors in series</i>	$R_T = R_1 + R_2 + R_3$
<i>Change in momentum</i>	$Ft = mv - mu$	<i>Resistors in parallel</i>	$\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
<i>Momentum</i>	$p = mv$		$R_T = (R_1^{-1} + R_2^{-1} + R_3^{-1})^{-1}$
<i>Conservation of momentum</i>	$P_{\text{before}} = P_{\text{after}}$ $m_1u_1 + m_2u_2 \rightarrow m_1v_1 + m_2v_2$	<i>Resistivity</i>	$R = \rho \frac{\ell}{A}$
<i>Weight</i>	$F_w = mg$	<i><b>HEATING AND COOLING</b></i>	
<i>Work</i>	$\text{work} = Fs$	<i>Concept</i>	<i>Formula</i>
<i>Energy</i>	$E_k = \frac{1}{2}mv^2$ $E_p = mgh$	<i>Specific heat</i>	$Q = mc \Delta T$
<i>Power</i>	$P = \frac{W}{t} = \frac{\Delta E}{t} = P_{V_{av}}$	<i>Latent heat</i>	$Q = mL$
<i><b>NUCLEAR PHYSICS</b></i>		<i>Method of Mixtures</i>	Heat lost = Heat gained
<i>Concept</i>	<i>Formula</i>	<i>Ideal Gas Law</i>	$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$
<i>Binding energy</i>	$E_b (J) = m_d (\text{kg}) \times c^2$ $E_b (\text{MeV}) = m_d (u) \times 931$ $E_d(J) = E_b(\text{MeV}) \times 1.6 \times 10^{-13}$		
<i>Absorbed dose</i>	$\frac{\text{Energy}}{\text{mass}} = \frac{E}{m}$		
<i>Dose equivalent</i>	Absorbed dose x QF (QF = Quality Factor)		
<i>Half-life</i>	$\frac{2^n}{1} = \frac{A_0}{A}$		
	$A = A_0 (\frac{1}{2})^T$		
<i>Activity</i>	$A = \frac{\Delta N}{\Delta t}$		

# Physics Formulas For High School And College Students English Edition

**Rachel S Tattersall**



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