#### 4.2 Information sheets - Paper 1 (Physics)

#### DATA FOR PHYSICAL SCIENCES GRADE 12 PAPER 1 (PHYSICS)

#### TABLE 1: PHYSICAL CONSTANTS

NAME	SYMBOL	VALUE
Acceleration due to gravity	0	9.8 m-s <sup>-2</sup>
Universal gravitational constant	G	6.67 x 1011 N-m1 kg1
Speed of light in a vacuum	o o	3,0 x 10° m-s 1
Planck's constant	h	6.63 × 10 <sup>14</sup> J·s
Coulomb's constant	le ;	9,0 x 10° N·m²-C°
Charge on electron		-1,6 x 10 <sup>10</sup> C
Electron mass.	me	9,11 × 10 <sup>11</sup> kg
Mass of the Earth	M	5,98 x 10 <sup>24</sup> kg
Radius of the Earth	Pie.	6,38 x 10° m

#### TABLE 2: FORMULAE

#### MOTION

$\mathbf{v}_1 = \mathbf{v}_1 + \mathbf{a}.52$	$\Delta x = v_{\lambda}M + \frac{1}{2} a_{\lambda}M^{2}$ OPI $\Delta y = v_{\lambda}M + \frac{1}{2} a_{\lambda}M^{2}$	
$\mathbf{v}_{i}^{\ \beta} = \mathbf{v}_{i}^{\ \beta} + \mathbf{Sahx} \ OR \ \mathbf{v}_{i}^{\ \beta} = \mathbf{v}_{i}^{\ \beta} + \mathbf{Sahy}$	$\nabla x = \left(\frac{S}{A^2 + A^2}\right) \nabla Y \cdot O(x) \nabla A = \left(\frac{S}{A^2 + A^2}\right) \nabla A$	

#### FORCE

F <sub>run</sub> — m.a	p-mv	
$f_{\nu}^{max} = \mu_{\nu} N$	t, - 11,100	
$F_{ac} \Delta t = \Delta p$ $\Delta p = m v_c = m v_c$	w~mg	
$F = \frac{Gm_1m_2}{d^2}$ OR $F = \frac{Gm_1m_2}{r^2}$	g - GM g - GM	

#### WORK, ENERGY AND POWER

W=FAxcose	U=mgh OR E <sub>p</sub> =mgh
$K = \frac{1}{2} m v^2$ OR $E_x = \frac{1}{2} m v^2$	$W_{\text{init}} = \Delta K$ OR $W_{\text{init}} = \Delta E_{\alpha}$ $\Delta K = K_{\alpha} - K_{\alpha}$ OR $\Delta E_{\alpha} = E_{\alpha} - E_{\alpha}$
W <sub>mc</sub> = ΔK = ΔU OR W <sub>mc</sub> = ΔE <sub>n</sub> + ΔE <sub>n</sub>	P=W M
P <sub>see</sub> = Fv <sub>see</sub>	

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