## 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

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

#### FORCE

F <sub>run</sub> – m.a	p-mv	
f, "ar = pc,N	t, - p., N	
$F_{\text{out}} \Delta t = \Delta p$ $\Delta p = m v_c = m v_c$	w-mg	
$F = \frac{Gm_1m_2}{d^2}$ OR $F = \frac{Gm_1m_2}{t^2}$	g - GM G - GM	

## WORK, ENERGY AND POWER

W+FAxces#	U=mgh OR Ep=mgh
$K = \frac{1}{9}mv^2$ OR $E_s = \frac{1}{9}mv^2$	$W_{\rm int} = \Delta K$ OR $W_{\rm int} = \Delta E_a$
2	AK = K, - K, OR AE, = E, - E,
$W_{\rm sc} = \Delta K + \Delta U  OR  W_{\rm sc} = \Delta E_{\rm s} + \Delta E_{\rm b}$	P-W
P <sub>nn</sub> = Fv <sub>nn</sub>	

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# Physical Science Grade 12 November Grade 12 Paper 1 Memorandum

**RJ Shavelson** 

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