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 ⁻²
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 ¹⁴ J·s
Coulomb's constant	le ;	9,0 x 10° N·m²-C°
Charge on electron		-1,6 x 10 ¹⁰ C
Electron mass.	me	9,11 × 10 ¹¹ kg
Mass of the Earth	M	5.98 x 10 ²⁴ 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 $\Delta y = v_{\lambda}M + \frac{1}{2} a_{\lambda}M^{2}$	
$\mathbf{v}_{i}^{\ \beta} = \mathbf{v}_{i}^{\ \beta} + \mathbf{Sahx} \ OR \ \mathbf{v}_{i}^{\ \beta} = \mathbf{v}_{i}^{\ \beta} + \mathbf{Sahy}$	$\nabla x = \left(\frac{S}{A^2 + A^2}\right) \nabla t \cdot C \Leftrightarrow \nabla A = \left(\frac{S}{A^2 + A^2}\right) \nabla t$	

FORCE

F _{run} — m.a	p-mv	
f, " = u,N	t, - p., N	
$F_{ac} \Delta t = \Delta p$ $\Delta p = m v_c = m v_c$	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 _p =mgh
$K = \frac{1}{2}mv^2$ OR $E_x = \frac{1}{2}mv^2$	$W_{net} = \Delta K$ OR $W_{net} = \Delta E_{n}$ $\Delta K = K_{n} - K$ OR $\Delta E_{n} = E_{n} - E_{n}$
W _{mc} = ΔK = ΔU OR W _{mc} = ΔE _n + ΔE _n	P-W/M
P _{see} = Fv _{see}	

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