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

FORCE

F _{run} — 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 _p =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 _{mc} = ΔK = ΔU OR W _{mc} = ΔE _n + ΔE _n	P=W M
P _{see} = Fv _{see}	

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 - The Rise of Digital Reading Physical Science Paper1 Scope Ncs
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Science Paper1 Scope Ncs
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physical Science Paper1 Scope Ncs
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Science Paper1 Scope Ncs

- Personalized Recommendations
- Physical Science Paper1 Scope Ncs User Reviews and Ratings
- Physical Science Paper1 Scope Ncs and Bestseller Lists
- 5. Accessing Physical Science Paper1 Scope Ncs Free and Paid eBooks
 - Physical Science Paper1 Scope Ncs Public Domain eBooks
 - Physical Science Paper1 Scope Ncs eBook Subscription Services
 - Physical Science Paper1 Scope Ncs Budget-Friendly Options
- 6. Navigating Physical Science Paper1 Scope Ncs eBook Formats
 - o ePub, PDF, MOBI, and More
 - Physical Science Paper1 Scope Ncs Compatibility with Devices
 - Physical Science Paper1 Scope Ncs Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Paper1 Scope Ncs
 - Highlighting and Note-Taking Physical Science Paper1 Scope Ncs
 - Interactive Elements Physical Science Paper1 Scope Ncs
- 8. Staying Engaged with Physical Science Paper1 Scope Ncs
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Paper1 Scope Ncs
- 9. Balancing eBooks and Physical Books Physical Science Paper1 Scope Ncs
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Paper1 Scope Ncs
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Paper1 Scope Ncs
 - Setting Reading Goals Physical Science Paper1 Scope Ncs
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Paper1 Scope Ncs

- Fact-Checking eBook Content of Physical Science Paper1 Scope Ncs
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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