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	g	9,8 m·s ⁻²
Universal gravitational constant	G	6,67 x 10 ⁻¹¹ N-m ² -kg ⁻²
Speed of light in a vacuum	c	3,0 x 10 ⁸ m·s ⁻¹
Planck's constant	h	6,63 x 10 ⁻³⁴ J-s
Coulomb's constant	k	9,0 x 10 ⁹ N·m ² ·C ²
Charge on electron	е	-1,6 x 10 ⁻⁷⁹ C
Electron mass	me	9,11 x 10 ⁻³¹ kg
Mass of the Earth	м	5,98 x 10 ²⁴ kg
Radius of the Earth	Re	6,38 x 10 ⁶ m

TABLE 2: FORMULAE

MOTION

$v_1 = v_1 + a \Delta t$	$\Delta x = v_i \Delta t + \frac{1}{2} a \Delta t^2$ OR $\Delta y = v_i \Delta t + \frac{1}{2} a \Delta t^2$	
${\bf v_i}^2={\bf v_i}^2+2a\Delta x$ OR ${\bf v_i}^2={\bf v_i}^2+2a\Delta y$	$\Delta x = \left(\frac{\mathbf{v}_t + \mathbf{v}_t}{2}\right) \Delta t \text{ OR } \Delta y = \left(\frac{\mathbf{v}_t + \mathbf{v}_t}{2}\right) \Delta t$	

FORCE

F _{net} = ma	p=mv	
$f_{\alpha}^{\text{max}} = \mu_{\alpha} N$	$f_k = \mu_k N$	
$F_{res}\Delta I = \Delta p$ $\Delta p = mv_{r} _ mv_{r}$	w=mg	
$F = \frac{Gm_1m_2}{d^2}$ OR $F = \frac{Gm_1m_2}{r^2}$	$g = \frac{GM}{d^2}$ OR $g = \frac{GM}{r^2}$	

WORK, ENERGY AND POWER

W=F∆x cos θ	U=mgh OR Ep=mgh
$K = \frac{1}{2}mv^2$ OR $E_k = \frac{1}{2}mv^2$	$W_{net} = \triangle K$ OR $W_{net} = \triangle E_{s}$
K-2mv On C, -2mv	$\Delta K = K_r - K_i$ OR $\Delta E_k = E_{kl} - E_{kl}$
$W_{\infty} = \triangle K + \triangle U$ OR $W_{\infty} = \triangle E_k + \triangle E_p$	$P = \frac{W}{\Delta t}$
P _{ave} = FV _{ave}	

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- 1. Understanding the eBook 14 Grd12 Physics Paper
 - The Rise of Digital Reading 14 Grd12 Physics Paper
 - Advantages of eBooks Over Traditional Books
- 2. Identifying 14 Grd12 Physics Paper
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - $\circ \ \ Determining \ Your \ Reading \ Goals$
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 14 Grd12 Physics Paper
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from 14 Grd12 Physics Paper
 - Personalized Recommendations

- 14 Grd12 Physics Paper User Reviews and Ratings
- 14 Grd12 Physics Paper and Bestseller Lists
- 5. Accessing 14 Grd12 Physics Paper Free and Paid eBooks
 - 14 Grd12 Physics Paper Public Domain eBooks
 - 14 Grd12 Physics Paper eBook Subscription Services
 - 14 Grd12 Physics Paper Budget-Friendly Options
- 6. Navigating 14 Grd12 Physics Paper eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - \circ 14 Grd12 Physics Paper Compatibility with Devices
 - 14 Grd12 Physics Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Grd12 Physics Paper
 - Highlighting and Note-Taking 14 Grd12 Physics Paper
 - Interactive Elements 14 Grd12 Physics Paper
- 8. Staying Engaged with 14 Grd12 Physics Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 Grd12 Physics Paper
- 9. Balancing eBooks and Physical Books 14 Grd12 Physics Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 Grd12 Physics Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 14 Grd12 Physics Paper
 - Setting Reading Goals 14 Grd12 Physics Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14 Grd12 Physics Paper
 - Fact-Checking eBook Content of 14 Grd12 Physics Paper

- 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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