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

#### FORCE

F <sub>run</sub> — 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 <sub>p</sub> =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 <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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- 1. Understanding the eBook Grade 1 physics Pand 2 November 2014 Kzn
  - The Rise of Digital Reading Grade 1physics Pand 2 November 2014 Kzn
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Grade 1physics Pand 2 November 2014 Kzn
  - 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 Grade 1physics Pand 2 November 2014 Kzn
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade 1physics Pand 2 November 2014 Kzn
  - Personalized Recommendations
  - ∘ Grade 1physics Pand 2 November 2014 Kzn User Reviews and Ratings
  - Grade 1physics Pand 2 November 2014 Kzn and Bestseller Lists
- 5. Accessing Grade 1physics Pand 2 November 2014 Kzn Free and Paid eBooks
  - Grade 1 physics Pand 2 November 2014 Kzn Public Domain eBooks
  - Grade 1physics Pand 2 November 2014 Kzn eBook Subscription Services
  - Grade 1physics Pand 2 November 2014 Kzn Budget-Friendly Options

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  - o ePub, PDF, MOBI, and More
  - Grade 1physics Pand 2 November 2014 Kzn Compatibility with Devices
  - Grade 1physics Pand 2 November 2014 Kzn Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Grade 1 physics Pand 2 November 2014 Kzn
  - Highlighting and Note-Taking Grade 1physics Pand 2 November 2014 Kzn
  - o Interactive Elements Grade 1 physics Pand 2 November 2014 Kzn
- 8. Staying Engaged with Grade 1 physics Pand 2 November 2014 Kzn
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 1physics Pand 2 November 2014 Kzn
- 9. Balancing eBooks and Physical Books Grade 1physics Pand 2 November 2014 Kzn
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 1 physics Pand 2 November 2014 Kzn
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 1 physics Pand 2 November 2014 Kzn
  - Setting Reading Goals Grade 1physics Pand 2 November 2014 Kzn
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 1 physics Pand 2 November 2014 Kzn
  - Fact-Checking eBook Content of Grade 1physics Pand 2 November 2014 Kzn
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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