

**EXAMINATION DATA SHEET FOR THE PHYSICAL SCIENCES  
(PHYSICS)**

**TABLE 1 PHYSICAL CONSTANTS**

NAME	SYMBOL	VALUE
Acceleration due to gravity on Earth	g	9,8 m·s <sup>-2</sup>
Speed of light in a vacuum	c	3,0 × 10 <sup>8</sup> m·s <sup>-1</sup>
Universal gravitational constant	G	6,7 × 10 <sup>-11</sup> N·m <sup>2</sup> ·kg <sup>-2</sup>
Coulomb's constant	k	9,0 × 10 <sup>9</sup> N·m <sup>2</sup> ·C <sup>-2</sup>
Magnitude of charge on electron	e	1,6 × 10 <sup>-19</sup> C
Mass of an electron	m <sub>e</sub>	9,1 × 10 <sup>-31</sup> kg
Planck's constant	h	6,6 × 10 <sup>-34</sup> J·s
1 electron-volt	eV	1,6 × 10 <sup>-19</sup> J

**TABLE 2 PHYSICS FORMULAE****MOTION**

$v = u + at$ or $v_f = v_i + a\Delta t$	$s = \left(\frac{v+u}{2}\right)t$ or $\Delta x = \left(\frac{v_f+v_i}{2}\right)\Delta t$
$v^2 = u^2 + 2as$ or $v_f^2 = v_i^2 + 2a\Delta x$	$s = ut + \frac{1}{2}at^2$ or $\Delta x = v_i\Delta t + \frac{1}{2}a(\Delta t)^2$

**FORCE AND MOMENTUM**

$F_{net} = ma$	$F_{net} = \frac{\Delta p}{\Delta t}$ or $F_{net}\Delta t = m\Delta v$	$J = \Delta p = mv - mu$ or $J = \Delta p = mv_f - mv_i$
$p = mv$	$F_G = mg$	$F_{fs}^{max} = \mu_s F_N$ $F_{fk} = \mu_k F_N$

**WORK, ENERGY AND POWER**

$W = Fs$ or $W = F\Delta x$ or $W = F\Delta x \cos\theta$	$P = \frac{W}{t}$	$P = Fv$
$E_p = mgh$	$E_k = \frac{1}{2}mv^2$	$W_{net} = \Delta E_k$
		$\% \text{ efficiency} = \frac{\text{power}_{out}}{\text{power}_{in}} \times 100$

# Limpopo Physics Grade 1memo 2014

**Allison**



**Limpopo Physics Grade 1memo 2014:**

**Physics P199 Physical Science Through Inquiry** McCormack,2012-01-31  
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## **Limpopo Physics Grade 1memo 2014** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Limpopo Physics Grade 1memo 2014**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

<https://blog.gospelcrusade.org/files/detail/HomePages/Facilitating%20Reflective%20Learning%20Through%20Mentoring%20Coaching.pdf>

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