

EXAMINATION DATA SHEET FOR THE PHYSICAL SCIENCES (PHYSICS)

TABLE 1 PHYSICAL CONSTANTS

NAME	SYMBOL	VALUE
Acceleration due to gravity on Earth	g	$9,8 \text{ m}\cdot\text{s}^{-2}$
Speed of light in a vacuum	c	$3,0 \times 10^8 \text{ m}\cdot\text{s}^{-1}$
Universal gravitational constant	G	$6,7 \times 10^{-11} \text{ N}\cdot\text{m}^2\cdot\text{kg}^{-2}$
Coulomb's constant	k	$9,0 \times 10^9 \text{ N}\cdot\text{m}^2\cdot\text{C}^{-2}$
Magnitude of charge on electron	e	$1,6 \times 10^{-19} \text{ C}$
Mass of an electron	m_e	$9,1 \times 10^{-31} \text{ kg}$
Planck's constant	h	$6,6 \times 10^{-34} \text{ J}\cdot\text{s}$
1 electron-volt	eV	$1,6 \times 10^{-19} \text{ J}$

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

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

WORK, ENERGY AND POWER

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

2014 June Exam Physics Grade 12

J Elliott



2014 June Exam Physics Grade 12:

This book delves into 2014 June Exam Physics Grade 12. 2014 June Exam Physics Grade 12 is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into 2014 June Exam Physics Grade 12, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to 2014 June Exam Physics Grade 12
 - Chapter 2: Essential Elements of 2014 June Exam Physics Grade 12
 - Chapter 3: 2014 June Exam Physics Grade 12 in Everyday Life
 - Chapter 4: 2014 June Exam Physics Grade 12 in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of 2014 June Exam Physics Grade 12. This chapter will explore what 2014 June Exam Physics Grade 12 is, why 2014 June Exam Physics Grade 12 is vital, and how to effectively learn about 2014 June Exam Physics Grade 12.
 3. In chapter 2, this book will delve into the foundational concepts of 2014 June Exam Physics Grade 12. This chapter will elucidate the essential principles that need to be understood to grasp 2014 June Exam Physics Grade 12 in its entirety.
 4. In chapter 3, the author will examine the practical applications of 2014 June Exam Physics Grade 12 in daily life. The third chapter will showcase real-world examples of how 2014 June Exam Physics Grade 12 can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of 2014 June Exam Physics Grade 12 in specific contexts. This chapter will explore how 2014 June Exam Physics Grade 12 is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about 2014 June Exam Physics Grade 12. The final chapter will summarize the key points that have been discussed throughout the book.
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