

EXAMINATION DATA SHEET FOR THE PHYSICAL SCIENCES (PHYSICS)

TABLE 1 PHYSICAL CONSTANTS

NAME	SYMBOL	VALUE
Acceleration due to gravity	g	9,8 m·s ⁻²
Speed of light in a vacuum	c	3,0 × 10 ⁸ m·s ⁻¹
Universal gravitational constant	G	6,7 × 10 ⁻¹¹ N·m ² ·kg ⁻²
Coulomb's constant	k	9,0 × 10 ⁹ N·m ² ·C ⁻²
Magnitude of charge on electron	e	1,6 × 10 ⁻¹⁹ C
Mass of an electron	m _e	9,1 × 10 ⁻³¹ kg
Planck's constant	h	6,6 × 10 ⁻³⁴ J·s
1 electron volt	eV	1,6 × 10 ⁻¹⁹ 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 $F_{net}\Delta t = m\Delta v$	$\Delta p = mv - mu$ or $\Delta p = mv_f - mv_i$
$p = mv$	$w = F_g = mg$	$F_f^{max} = \mu F_N$

WORK, ENERGY AND POWER

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

GRAVITATIONAL AND ELECTRIC FIELDS

$F = G \frac{m_1 m_2}{r^2}$	$g = G \frac{M}{r^2}$
$F = k \frac{q_1 q_2}{r^2}$	$E = \frac{F}{q}$
	$E = \frac{kQ}{r^2}$

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Table of Contents Physical Science P1 Schedule 9df

1. Understanding the eBook Physical Science P1 Schedule 9df
 - The Rise of Digital Reading Physical Science P1 Schedule 9df
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science P1 Schedule 9df
 - 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 P1 Schedule 9df
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science P1 Schedule 9df
 - Personalized Recommendations
 - Physical Science P1 Schedule 9df User Reviews and Ratings
 - Physical Science P1 Schedule 9df and Bestseller Lists
5. Accessing Physical Science P1 Schedule 9df Free and Paid eBooks
 - Physical Science P1 Schedule 9df Public Domain eBooks
 - Physical Science P1 Schedule 9df eBook Subscription Services
 - Physical Science P1 Schedule 9df Budget-Friendly Options
6. Navigating Physical Science P1 Schedule 9df eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science P1 Schedule 9df Compatibility with Devices
 - Physical Science P1 Schedule 9df Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science P1 Schedule 9df
 - Highlighting and Note-Taking Physical Science P1 Schedule 9df
 - Interactive Elements Physical Science P1 Schedule 9df
8. Staying Engaged with Physical Science P1 Schedule 9df

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Physical Science P1 Schedule 9df
- 9. Balancing eBooks and Physical Books Physical Science P1 Schedule 9df
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science P1 Schedule 9df
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science P1 Schedule 9df
 - Setting Reading Goals Physical Science P1 Schedule 9df
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science P1 Schedule 9df
 - Fact-Checking eBook Content of Physical Science P1 Schedule 9df
 - 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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