

KWAZULU-NATAL PROVINCE

EDUCATION REPUBLIC OF SOUTH AFRICA

PHYSICAL SCIENCES SCOPE FOR EXAMINATIONS 2024: GRADE 12

MARCH CONTROLLED TEST (100 marks)			
PAPER	TOPICS	MARK	DURATION
	Mechanics Momentum & Impulse: ✓ Momentum, Newton's second law expressed in terms of Momentum, ✓ Conservation of momentum and Elastic and Inelastic collisions. Vertical Projectile Motion in One Dimension (1D): ✓ represented in words, diagrams, equations and graphs Grade 11 Work ✓ Newton's Laws (Newton 1, 2, 3) ✓ Newton's Law of Universal Gravitation) ✓ Applications of Newton's Laws	50	2 hours
ONE PAPER ONLY	Matter and Materials Organic molecules: Organic molecular structures - functional groups, saturated and unsaturated structures, isomers FUPAC naming and formulae Structure physical property relationships Applications of organic chemistry - Substitution, addition and elimination. (ONLY alkanes, alkenes, alkynes, alcohols, haloalkanes, carboxylic acids, and esters) Grade 11 Work Inter-molecular forces NB: Quantitative aspects of chemical change may be assessed across chemistry.	50	

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Table of Contents Physical Sciences P2 Final Examination 2014 Scope

- 1. Understanding the eBook Physical Sciences P2 Final Examination 2014 Scope
 - The Rise of Digital Reading Physical Sciences P2 Final Examination 2014 Scope
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Sciences P2 Final Examination 2014 Scope
 - 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 Sciences P2 Final Examination 2014 Scope
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Sciences P2 Final Examination 2014 Scope
 - Personalized Recommendations
 - Physical Sciences P2 Final Examination 2014 Scope User Reviews and Ratings
 - Physical Sciences P2 Final Examination 2014 Scope and Bestseller Lists

- 5. Accessing Physical Sciences P2 Final Examination 2014 Scope Free and Paid eBooks
 - Physical Sciences P2 Final Examination 2014 Scope Public Domain eBooks
 - Physical Sciences P2 Final Examination 2014 Scope eBook Subscription Services
 - Physical Sciences P2 Final Examination 2014 Scope Budget-Friendly Options
- 6. Navigating Physical Sciences P2 Final Examination 2014 Scope eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Physical Sciences P2 Final Examination 2014 Scope Compatibility with Devices
 - Physical Sciences P2 Final Examination 2014 Scope Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Sciences P2 Final Examination 2014 Scope
 - Highlighting and Note-Taking Physical Sciences P2 Final Examination 2014 Scope
 - Interactive Elements Physical Sciences P2 Final Examination 2014 Scope
- 8. Staying Engaged with Physical Sciences P2 Final Examination 2014 Scope
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Sciences P2 Final Examination 2014 Scope
- 9. Balancing eBooks and Physical Books Physical Sciences P2 Final Examination 2014 Scope
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Sciences P2 Final Examination 2014 Scope
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Sciences P2 Final Examination 2014 Scope
 - Setting Reading Goals Physical Sciences P2 Final Examination 2014 Scope
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Sciences P2 Final Examination 2014 Scope
 - Fact-Checking eBook Content of Physical Sciences P2 Final Examination 2014 Scope
 - 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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