



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
ONE PAPER ONLY	<u>Mechanics</u> 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
	<u>Matter and Materials</u> Organic molecules: ✓ Organic molecular structures - functional groups, saturated and unsaturated structures, isomers ✓ IUPAC 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 Grade1paperscope

1. Understanding the eBook Physical Sciences Grade1paperscope
 - The Rise of Digital Reading Physical Sciences Grade1paperscope
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Sciences Grade1paperscope
 - 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 Grade1paperscope
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Sciences Grade1paperscope
 - Personalized Recommendations
 - Physical Sciences Grade1paperscope User Reviews and Ratings
 - Physical Sciences Grade1paperscope and Bestseller Lists
5. Accessing Physical Sciences Grade1paperscope Free and Paid eBooks
 - Physical Sciences Grade1paperscope Public Domain eBooks
 - Physical Sciences Grade1paperscope eBook Subscription Services
 - Physical Sciences Grade1paperscope Budget-Friendly Options
6. Navigating Physical Sciences Grade1paperscope eBook Formats

- ePub, PDF, MOBI, and More
- Physical Sciences Grade1paperscope Compatibility with Devices
- Physical Sciences Grade1paperscope Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Sciences Grade1paperscope
 - Highlighting and Note-Taking Physical Sciences Grade1paperscope
 - Interactive Elements Physical Sciences Grade1paperscope
- 8. Staying Engaged with Physical Sciences Grade1paperscope
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Sciences Grade1paperscope
- 9. Balancing eBooks and Physical Books Physical Sciences Grade1paperscope
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Sciences Grade1paperscope
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Sciences Grade1paperscope
 - Setting Reading Goals Physical Sciences Grade1paperscope
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Sciences Grade1paperscope
 - Fact-Checking eBook Content of Physical Sciences Grade1paperscope
 - 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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