



KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

PHYSICAL SCIENCES

SCOPE FOR CONTROL TESTS AND EXAMINATION 2024: GRADE 11

MARCH CONTROLLED TEST			
PAPER	TOPICS	MARK	DURATION
ONE PAPER ONLY	Mechanics: - Vectors in two dimensions, Different kinds of forces, Force diagrams, Free-body diagrams, - Newton's First, Second and Third Laws, - Newton's Law of Universal Gravitation. Electricity and Magnetism: Electrostatics - Electric charge and charge transfer (grade 10) - Coulomb's Law, - Electric Fields.	100	2 hours

JUNE / MID-YEAR EXAMINATION			
NB: June / Mid-year examination will assess all the Term 1 and Term 2 work.			
PAPER	TOPICS	MARK	DURATION
PAPER 1	- Vectors in two dimensions - Newton's laws - Electrostatics - Electromagnetism - Electric circuits	75	1½ hours
PAPER 2	- Chemical bonding - Lewis diagrams and electron configuration - Writing of formulae - Molecular shapes - Electronegativity - Intermolecular forces	75	1½ hours

SEPTEMBER CONTROL TEST			
PAPER	TOPICS	MARKS	DURATION
ONE PAPER ONLY	- Quantitative aspects of chemical change - Energy and chemical change - Acids and bases - Ideal gases and thermal properties	100	2 hours

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Table of Contents Physical Sciences Scope Papergrade11examination

1. Understanding the eBook Physical Sciences Scope Papergrade11examination
 - The Rise of Digital Reading Physical Sciences Scope Papergrade11examination
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Sciences Scope Papergrade11examination
 - 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 Scope Papergrade11examination
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Sciences Scope Papergrade11examination
 - Personalized Recommendations
 - Physical Sciences Scope Papergrade11examination User Reviews and Ratings
 - Physical Sciences Scope Papergrade11examination and Bestseller Lists
5. Accessing Physical Sciences Scope Papergrade11examination Free and Paid eBooks
 - Physical Sciences Scope Papergrade11examination Public Domain eBooks
 - Physical Sciences Scope Papergrade11examination eBook Subscription Services
 - Physical Sciences Scope Papergrade11examination Budget-Friendly Options
6. Navigating Physical Sciences Scope Papergrade11examination eBook Formats

- ePub, PDF, MOBI, and More
- Physical Sciences Scope Papergrade11examination Compatibility with Devices
- Physical Sciences Scope Papergrade11examination Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Sciences Scope Papergrade11examination
 - Highlighting and Note-Taking Physical Sciences Scope Papergrade11examination
 - Interactive Elements Physical Sciences Scope Papergrade11examination
- 8. Staying Engaged with Physical Sciences Scope Papergrade11examination
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Sciences Scope Papergrade11examination
- 9. Balancing eBooks and Physical Books Physical Sciences Scope Papergrade11examination
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Sciences Scope Papergrade11examination
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Sciences Scope Papergrade11examination
 - Setting Reading Goals Physical Sciences Scope Papergrade11examination
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Sciences Scope Papergrade11examination
 - Fact-Checking eBook Content of Physical Sciences Scope Papergrade11examination
 - 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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