



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

Physical Sciences Scope For Grade 11 Final Exam

Daniel F McAuley



Physical Sciences Scope For Grade 11 Final Exam:

Whispering the Techniques of Language: An Psychological Quest through **Physical Sciences Scope For Grade 11 Final Exam**

In a digitally-driven earth where monitors reign great and immediate interaction drowns out the subtleties of language, the profound strategies and emotional nuances hidden within words often get unheard. However, situated within the pages of **Physical Sciences Scope For Grade 11 Final Exam** a fascinating literary treasure pulsing with natural emotions, lies an extraordinary quest waiting to be undertaken. Penned by a skilled wordsmith, that marvelous opus encourages readers on an introspective journey, delicately unraveling the veiled truths and profound influence resonating within the very material of each word. Within the mental depths of the moving review, we will embark upon a genuine exploration of the book is key styles, dissect its charming publishing model, and succumb to the powerful resonance it evokes strong within the recesses of readers hearts.

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Table of Contents Physical Sciences Scope For Grade 11 Final Exam

1. Understanding the eBook Physical Sciences Scope For Grade 11 Final Exam
 - The Rise of Digital Reading Physical Sciences Scope For Grade 11 Final Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Sciences Scope For Grade 11 Final Exam
 - 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 For Grade 11 Final Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Sciences Scope For Grade 11 Final Exam

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

- Fact-Checking eBook Content of Physical Sciences Scope For Grade 11 Final Exam
- 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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web procedure 1 the relationship between pressure and volume set the plunger of the syringe to 1 10 the capacity of the syringe the 2 0 ml mark if using a 20 ml syringe the volume is read from the edge of the bottom rib of the plunger attach the syringe to the connector at the end of sensor

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web he concluded that at a constant pressure the volume of the gas would expand at a particular rate for each degree of temperature rise that being 1 267 per degree in 1874 victor regnault obtained better experimental results showing this number to be 1 273 and concluded that the pressure would approach zero at 1 273 degrees c

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web the volume of 1 00 mol 1 00 mol of any gas at stp standard temperature 273 15 k and pressure 1 atm is measured to be 22 414l 22 414 l we can substitute 101 325kpa 101 325 kpa for pressure 22 414 l 22 414 l for volume and 273 15 k 273 15 k for temperature into the ideal gas equation and solve for r r

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web chemists sometimes make comparisons against a standard temperature and pressure stp for reporting properties of

gases 273 15 k and 1 atm 101 325 kpa 1 at stp one mole of an ideal gas has a volume of about 22 4 l this is referred to as the standard molar volume figure 9 18

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web volume pressure kpa linear pressure kpa volume ml pressure kpa in part b we observed the relationship between temperature and pressure the pressure of the 125 ml flask was at 101 36 kpa when the temperature was at 23 2 c

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web the properties of water at constant volume can be represented as a function of pressure and temperature as shown in the diagram below figure 1 the pressure temperature relationship at constant volume the saturation point of water is the condition at which a phase change occurs from liquid to vapour or vapour to liquid

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