



education

Department of
Education
FREE STATE PROVINCE

PHYSICAL SCIENCES PAPER 2 (CHEMISTRY)

GRADE 12

TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2021



TABLE OF CONTENTS

HOW TO USE THIS DOCUMENT	2
TERMS AND DEFINITIONS	3
QUESTIONS	9
ORGANIC MOLECULES: NOMENCLATURE	9
ORGANIC MOLECULES: PHYSICAL PROPERTIES	17
ORGANIC MOLECULES: ORGANIC REACTIONS	24
REACTION RATE AND ENERGY IN CHEMICAL REACTIONS	31
CHEMICAL EQUILIBRIUM	42
ACIDS AND BASES	49
GALVANIC CELLS	56
ELECTROLYTIC CELLS	63
ANSWERS TO QUESTIONS	69
ORGANIC MOLECULES: NOMENCLATURE	69
ORGANIC MOLECULES: PHYSICAL PROPERTIES	74
ORGANIC MOLECULES: ORGANIC REACTIONS	80
REACTION RATE AND ENERGY IN CHEMICAL REACTIONS	86
CHEMICAL EQUILIBRIUM	95
ACIDS AND BASES	107
GALVANIC CELLS	114
ELECTROLYTIC CELLS	117
BIBLIOGRAPHY	119



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Physical Science Paper For Grade Marc 24:

The 1990 Science Report Card : NAEP's Assessment of Fourth, Eighth, and Twelfth Graders Lee R. Jones,1992

This report from The Nation's Report Card provides further information about students lack of preparation in science their apparent disinclination to enroll in challenging science courses and the comparatively low achievement of Black and Hispanic students females economically disadvantaged students and non college bound students These Science Report Card results are based on a national survey of nearly 20 000 students in grades 4 8 and 12 conducted during the winter and spring of 1990 by the National Assessment of Education Progress NAEP The results from the 1990 science assessment were analyzed using item response theory IRT methods allowing NAEP to describe performance across the grades and subpopulations on a 0 to 500 scale Along this continuum four levels of proficiency were defined Level 200 Understands Simple Scientific Principles Level 250 Applies General Scientific Information Level 300 Analyzes Scientific Procedures and Data and Level 350 Integrates Specialized Scientific Information Overall science proficiency by race ethnicity gender region type of community type of school parents highest level of education additional home factors types of high school programs and plans after high school was determined Chapters include 1 Overall Science Proficiency for the Nation and Demographic Subpopulations 2 Levels of Science Proficiency for the National and Demographic Subpopulations 3 Science Proficiency by Content Areas for the Nation Subpopulations and in Relation to High School Course Taking 4 Attitudes toward Science Education and Students Experiences in Science 5 Toward Scientific Literacy for All Instructional Goals and Practices and 6 Who Is Teaching Science A Profile of the Eighth Grade Science Teaching Force The profile survey on teachers included data on race ethnicity years of teaching experience level and type of teaching certification academic training teachers perceptions of their preparation to teach science topics and teachers professional activities in science An overview of the procedures used in the 1990 science assessment the NAEP scale anchoring process for the 1990 science assessment and additional example anchor items and statistical data for all parts of the survey are appended KR

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Congress,1982 *Occupations of Federal White-collar Workers* United States Civil Service Commission. Bureau of Manpower Information Systems,1970 Fundamentals of Forensic Science Max M. Houck,Jay A. Siegel,2009-11-30

Fundamentals of Forensic Science Second Edition provides an introduction to the basic principles of forensic science The book begins at a crime scene and ends in the courtroom The book is divided into six parts Part 1 provides an overview of criminal justice and forensic science covering the basics of crime scene investigation and the nature of evidence Part 2 discusses analytical tools including microscopy Raman spectroscopy mass spectrometry atomic spectroscopy and separation methods Parts 3 to 5 discuss the various types of forensic evidence collected categorized by the types of science employed in their analysis physical science chemical science and biological science These include pathology anthropology and odontology entomology serology and bloodstain pattern analysis DNA analysis forensic hair examinations forensic toxicology fiber and paint analysis friction ridge examination and firearms and tool marks Part 6 discusses the legal aspects of forensic science The book is written for students with a background in basic science and it is can be used in a one semester or two semester format Vivid full color illustrations that diagram key concepts and depict evidence encountered in the field Straightforward unit organization that includes key terms numerous feature boxes emphasizing Internet resources historical events in forensic science practical issues in laboratory analysis and topics for further reading Effective pedagogy including end of chapter questions paired with a clear writing style makes this an invaluable resource for professors and students of forensic science

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Table of Contents Physical Science Paper For Grade Marc 24

1. Understanding the eBook Physical Science Paper For Grade Marc 24
 - The Rise of Digital Reading Physical Science Paper For Grade Marc 24
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper For Grade Marc 24
 - 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 Paper For Grade Marc 24
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper For Grade Marc 24

- Personalized Recommendations
 - Physical Science Paper For Grade Marc 24 User Reviews and Ratings
 - Physical Science Paper For Grade Marc 24 and Bestseller Lists
5. Accessing Physical Science Paper For Grade Marc 24 Free and Paid eBooks
 - Physical Science Paper For Grade Marc 24 Public Domain eBooks
 - Physical Science Paper For Grade Marc 24 eBook Subscription Services
 - Physical Science Paper For Grade Marc 24 Budget-Friendly Options
 6. Navigating Physical Science Paper For Grade Marc 24 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Paper For Grade Marc 24 Compatibility with Devices
 - Physical Science Paper For Grade Marc 24 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Paper For Grade Marc 24
 - Highlighting and Note-Taking Physical Science Paper For Grade Marc 24
 - Interactive Elements Physical Science Paper For Grade Marc 24
 8. Staying Engaged with Physical Science Paper For Grade Marc 24
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Paper For Grade Marc 24
 9. Balancing eBooks and Physical Books Physical Science Paper For Grade Marc 24
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Paper For Grade Marc 24
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physical Science Paper For Grade Marc 24
 - Setting Reading Goals Physical Science Paper For Grade Marc 24
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physical Science Paper For Grade Marc 24

- Fact-Checking eBook Content of Physical Science Paper For Grade Marc 24
- 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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