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PHYSICAL SCIENCES PAPER 2 (CHEMISTRY)

GRADE 12

TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2021



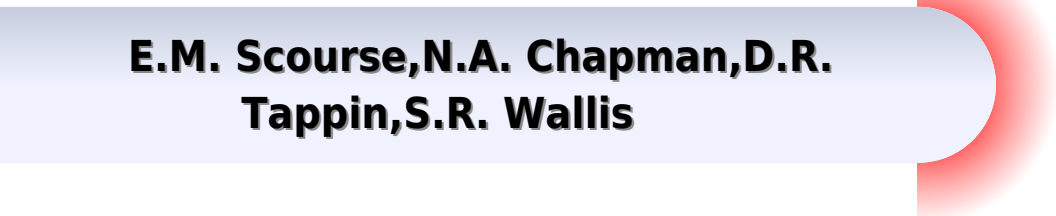
TABLE OF CONTENTS

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	68
ORGANIC MOLECULES: NOMENCLATURE	68
ORGANIC MOLECULES: PHYSICAL PROPERTIES	74
ORGANIC MOLECULES: ORGANIC REACTIONS	80
REACTION RATE AND ENERGY IN CHEMICAL REACTIONS	86
CHEMICAL EQUILIBRIUM	96
ACIDS AND BASES	107
GALVANIC CELLS	114
ELECTROLYTIC CELLS	117
BIBLIOGRAPHY	119



Physical Science Paper 2 September 2014

**E.M. Scourse, N.A. Chapman, D.R.
Tappin, S.R. Wallis**



Physical Science Paper 2 September 2014:

The Solar Activity Cycle André Balogh, Hugh Hudson, Kristóf Petrovay, Rudolf Steiger, 2015-04-16 A collection of papers edited by four experts in the field this book sets out to describe the way solar activity is manifested in observations of the solar interior the photosphere the chromosphere the corona and the heliosphere The 11 year solar activity cycle more generally known as the sunspot cycle is a fundamental property of the Sun This phenomenon is the generation and evolution of magnetic fields in the Sun s convection zone the photosphere It is only by the careful enumeration and description of the phenomena and their variations that one can clarify their interdependences The sunspot cycle has been tracked back about four centuries and it has been recognized that to make this data set a really useful tool in understanding how the activity cycle works and how it can be predicted a very careful and detailed effort is needed to generate sunspot numbers This book deals with this topic together with several others that present related phenomena that all indicate the physical processes that take place in the Sun and its exterior environment The reviews in the book also present the latest theoretical and modelling studies that attempt to explain the activity cycle It remains true as has been shown in the unexpected characteristics of the first two solar cycles in the 21st century that predictability remains a serious challenge Nevertheless the highly expert and detailed reviews in this book using the very best solar observations from both ground and space based telescopes provide the best possible report on what is known and what is yet to be discovered Originally published in Space Science Reviews Vol 186 Issues 1 4 2014

International Science and Technology Education Ortwin Renn, Nicole Karafyllis, Andreas Hohlt, Dorothea Taube, 2015-06-24 Education in science technology engineering and mathematics STEM is crucial for taking advantage of the prospects of new scientific discoveries initiating or promoting technological changes and managing opportunities and risks associated with innovations This book explores the emerging perspectives and methodologies of STEM education and its relationship to the cultural understanding of science and technology in an international context The authors provide a unique perspective on the subject presenting materials and experiences from non European industrialized as well as industrializing countries including China Japan South Korea India Egypt Brazil and the USA The chapters offer a wide scope of interpretations and comparative reviews of STEM education by including narrative elements about cultural developments considering the influence of culture and social perceptions on technological and social change and applying innovative tools of qualitative social research The book represents a comprehensive and multidisciplinary review of the current status and future challenges facing STEM education across the world including issues such as globalization interdependencies of norms and values effects on equity and social justice as well as resilience Overall the volume provides valuable insights for a broad and comprehensive international comparison of STEM philosophies approaches and experiences

The Hermeneutic Side of Responsible Research and Innovation Armin Grunwald, 2016-11-22 The book investigates the meaning of RRI if little or no valid knowledge about consequences of innovation and technology is available It proposes a

hermeneutical turn to investigate narratives about possible futures with respect to their contemporary meaning instead of regarding them as anticipations of the future

Applied Reconfigurable Computing Vanderlei Bonato, Christos Bouganis, Marek Gorgon, 2016-03-15 This book constitutes the refereed proceedings of the 12th International Symposium on Applied Reconfigurable Computing ARC 2016 held in Rio de Janeiro Brazil in March 2016 The 20 full papers presented in this volume were carefully reviewed and selected from 47 submissions They are organized in topical headings named video and image processing fault tolerant systems tools and architectures signal processing and multicore systems In addition the book contains 3 invited papers and 8 poster papers on funded RD running and completed projects

Autoethnography for Librarians and Information Scientists Ina Fourie, 2021-06-24 Autoethnography for Librarians and Information Scientists illustrates that autoethnography is a rich qualitative research method that can enhance understanding of one's own work experiences whilst also facilitating the design of tailored experiences for a variety of audiences Starting with the position that librarians and information scientists require deep insight into people's experiences needs and information behaviour in order to design appropriate services and information interventions this book shows that using only conventional methods such as questionnaires and focus groups is insufficient Arguing that autoethnography can provide unique insights into users' cultural experiences and needs contributors to this volume introduce the reader to different types of autoethnography Highlighting common challenges and clarifying how autoethnography can be combined with other research methods this book will empower librarians and information scientists to conceptualise topics for autoethnographic research whilst also ensuring that they adhere to strict ethical guidelines Chapters within the volume also demonstrate how to produce autoethnographic writing and stress the need to analyse autoethnographies produced by others Autoethnography for Librarians and Information Scientists is essential reading for any librarian information scientist or student looking to deepen their understanding of their own experiences It will be particularly useful to those engaged in the study of service provision user studies and information behaviour

Teaching with Tablets Helen Caldwell, James Bird, 2015-03-19 The presence of handheld technologies in the classroom isn't enough you need to know how to use them to enhance teaching and transform learning As more and more primary schools acquire devices such as iPads and tablets it is becoming clear that adding them as a classroom resource is not enough Teachers and trainees need strategies to integrate these into existing learning contexts in a meaningful way Without this these fantastic resources lose their value This book helps teachers to make the most of these devices in the primary classroom It offers guidance on how to use tablets to devise meaningful learning activities embed them in genuine curriculum contexts drawing upon case studies from existing practice It is written for non-specialists and explains technical terms in an accessible practical way Each chapter begins with a case study contributed by a teacher using tablets in schools Real life examples and comments like this give the text a truly practical focus The book's Pinterest board includes the apps mentioned in the book as well as a handy infographic for a snapshot guide on starting off

your tablet teaching journey A note from the authors The use of technology in schools continues to evolve rapidly as new devices and tools become available and the adoption of mobile devices such as iPads and tablets has been a particularly exciting development in recent years The benefits offered by these technologies such as their portability connectivity accessibility and range of media present new challenges and opportunities for teaching and learning As the take up of tablets gathers pace in our schools there is a need for advice on the best approaches and apps to help achieve successful learning outcomes Teachers need to find meaningful ways to integrate the devices into their own practice and to evaluate which of the many thousands of educational apps might be appropriate for their pupils This book considers how iPads and tablets can be used to enhance teaching and learning in primary schools It is especially relevant in the light of the computing curriculum which puts a new emphasis on children as makers and creators of digital content Across other curriculum subjects too the introduction of mobile devices that can be quickly and reliably accessed has precipitated a shift in practice For example they have enabled teachers and children to spontaneously pursue lines of inquiry to connect collaborate and publish in many different ways and to use their digital skills to enhance their exploration of the physical world outside the classroom With these opportunities in mind we offer anecdotes from the classroom and examples of how tablets might be embedded within current pedagogy and practice as a natural learning tool Each chapter combines a practical case study with discussion of related pedagogy and recommends apps to support a personalised inclusive and active approach to teaching and learning

Introduction to Information Behaviour Nigel Ford, 2015-08-27 This landmark textbook is an essential primer for students and practitioners interested in information seeking needs and behaviour user studies and information literacy Introduction to Information Behaviour uses a combination of theory and practical context to map out what information behaviour is and what we currently know about it before addressing how it can be better understood in the future Nigel Ford argues that new understandings of information behaviour research may help maximise the quality and effectiveness of the way information is presented sought discovered evaluated and used The book introduces the key concepts issues and themes of information behaviour illustrates them using key research studies and provides a clear path through the complex maze of theories and models The book is structured to move from the basics to the more complex and employs the pedagogical device of THINK boxes which invite the reader to think about concepts as they are introduced in order to consolidate their understanding before moving on Case studies are included throughout the text and each chapter concludes with a round up of what has been covered highlighting the implications for professional information practice The key topics covered include Defining information behaviour and why is it useful to know about it Information needs Information seeking and acquisition Collaborative information behaviour Factors affecting information behaviour Models and theories of information behaviour Research approaches and methodologies Designing information systems The future trajectory of information behaviour research and practice Readership This book will be core reading for students around the world particularly those on library

and information science courses It will also be of interest to practitioners and professional information users providers and developers

The Social Practice of Human Rights Joel R. Pruce,2015-06-16 The Social Practice of Human Rights bridges the conventional scholar practitioner divide by focusing on the space in between The volume brings together cutting edge chapters that together set a new agenda for research grounded in the practice of critical self reflection on the strategies that drive communities dedicated to the advocacy and implementation of human rights The social practice of human rights takes place not in front of a judge but in the streets and alleys in the backrooms and out of the way places where change occurs Contributors to this volume investigate the contexts and efforts of activists and professionals devoted to promoting human rights norms This research takes as its subject the organizations and movements that shoulder the burden of improving respect for human dignity It argues that through a constructive critique of these patterns and practices scholarship can have a positive impact on the political world

Tsunamis E.M. Scourse,N.A. Chapman,D.R. Tappin,S.R. Wallis,2018-01-05 This Special Publication examines tsunami hazard and risk with particular focus on using the geological record With Earth s growing population clustered increasingly on coastlines tsunami hazards are of concern worldwide The papers explore the sedimentological and dynamic traces of recent and prehistoric tsunamis globally from Europe to the Pacific as well as looking at historic records and how the information can be used to characterise the scale of impacts and areas that are most susceptible to tsunami hazards Armed with this information scientists can begin to quantify risks both to populations and in economic terms This volume is aimed both at scientists working in this field and at a wider community interested in tsunami science and natural hazard assessment

Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges Jonathan E. Suk,Kathleen M. Vogel,Amanda Jane Ozin,2015-06-04 In September 2011 scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research but would have significant policy and intelligence implications The findings presented a modified variant of the H5N1 avian influenza virus hereafter referred to as the H5N1 virus that was transmissible via aerosol between ferrets These results suggested a worrisome possibility the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic In response a series of international discussions on the nature of dual use life science arose These discussions addressed the complex social technical political security and ethical issues related to dual use research This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives

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Table of Contents Physical Science Paper 2 September 2014

1. Understanding the eBook Physical Science Paper 2 September 2014
 - The Rise of Digital Reading Physical Science Paper 2 September 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper 2 September 2014
 - 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 2 September 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper 2 September 2014
 - Personalized Recommendations
 - Physical Science Paper 2 September 2014 User Reviews and Ratings
 - Physical Science Paper 2 September 2014 and Bestseller Lists
5. Accessing Physical Science Paper 2 September 2014 Free and Paid eBooks
 - Physical Science Paper 2 September 2014 Public Domain eBooks
 - Physical Science Paper 2 September 2014 eBook Subscription Services

- Physical Science Paper 2 September 2014 Budget-Friendly Options
- 6. Navigating Physical Science Paper 2 September 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Paper 2 September 2014 Compatibility with Devices
 - Physical Science Paper 2 September 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Paper 2 September 2014
 - Highlighting and Note-Taking Physical Science Paper 2 September 2014
 - Interactive Elements Physical Science Paper 2 September 2014
- 8. Staying Engaged with Physical Science Paper 2 September 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Paper 2 September 2014
- 9. Balancing eBooks and Physical Books Physical Science Paper 2 September 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Paper 2 September 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Paper 2 September 2014
 - Setting Reading Goals Physical Science Paper 2 September 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Paper 2 September 2014
 - Fact-Checking eBook Content of Physical Science Paper 2 September 2014
 - 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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