



education

Department of
Education
FREE STATE PROVINCE

PHYSICAL SCIENCES PAPER 2 (CHEMISTRY)

GRADE 12

TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2021

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Physical Science Paper 2 September 2014

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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

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

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

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

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

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

200 technical questions and answers for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 200 questions and answers for job interview and as a BONUS web addresses to 230 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

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

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309 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

Neutrosophic Sets and Systems, vol. 14/2016 K Mondal, S. Pramanik , F. Smarandache, S. K. De , I. Beg, M. A. Malik, A. Hassan, S. Broumi, P. J. M. Vera, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc **150**

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Change And Agroecosystems: The Agricultural Model Intercomparison And Improvement Project (Agmip)
Integrated Crop And Economic Assessments — Joint Publication With Asa, Cssa, And Sssa (In 2 Parts) Daniel Hillel, Cynthia Rosenzweig, 2015-02-13 Top agricultural scientists from around the world have taken up the challenge of sustainable agriculture with the specific focus on integrating agronomic climatological biophysical and socio economic perspectives and processes Every chapter of the Handbook contributes to addressing the growing food security challenges facing the world Foreword by Jeffrey Sachs Director of the Earth Institute at Columbia University Climate effects on agriculture are of increasing concern in both the scientific and policy communities because of the growing population and the greater uncertainty in the weather during growing seasons Changes in production are directly linked to variations in temperature and precipitation during the growing season and often to the offseason changes in weather because of soil water storage to replenish the soil profile This is not an isolated problem but one of worldwide interest because each country has concerns about their food security The Agricultural Model Intercomparison and Improvement Project AgMIP was developed to evaluate agricultural models and intercompare their ability to predict climate impacts In sub Saharan Africa and South Asia South America and East Asia AgMIP regional research teams RRTs are conducting integrated assessments to improve understanding of agricultural impacts of climate change including biophysical and economic impacts at national and regional scales Other AgMIP initiatives include global gridded modeling data and information technology IT tool development simulation of crop pests and diseases site based crop climate sensitivity studies and aggregation and scaling **150**

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273 technical questions and answers for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 230 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry [Reframing Climate Change](#) Shannon O'Lear,Simon Dalby,2015-07-24 Change the system not the climate is a common slogan of climate change activists Yet when this idea comes into the academic and policy realm it is easy to see how climate change discourse frequently asks the wrong questions Reframing Climate Change encourages social scientists policy makers and graduate students to critically consider how climate change is framed in scientific social and political spheres It proposes ecological geopolitics as a framework for understanding the extent to which climate change is a meaningful analytical focus as well as the ways in which it can be detrimental detracting attention from more productive lines of thought research and action The volume draws from multiple perspectives and disciplines to cover a broad scope of climate change Chapter topics range from climate science and security to climate justice and literacy Although these familiar concepts are widely used by scholars and policy makers they are discussed here as frequently problematic when used as lenses through which to study climate change Beyond merely reviewing current trends within these different approaches to climate change the collection offers a thoughtful assessment of these approaches with an eye towards an overarching reconsideration of the current understanding of our relationship to climate change Reframing

Climate Change is an essential resource for students policy makers and anyone interested in understanding more about this important topic Who decides what the priorities are Who benefits from these priorities and what kinds of systems or actions are justified or hindered The key contribution of the book is the outlining of ecological geopolitics as a different way of understanding human environment relationships including and beyond climate change issues Human Development and Global Institutions Richard Ponzio, Arunabha Ghosh, 2016-02-05 This book provides a timely and accessible introduction to the foundational ideas associated with the human development school of thought It examines its conceptual evolution during the post colonial era and discusses how various institutions of the UN system have tried to engage with this issue both in terms of intellectual and technical advance and operationally Showing that human development has had a profound impact on shaping the policy agenda and programming priorities of global institutions it argues that human development has helped to preserve the continued vitality of major multilateral development programs funds and agencies It also details how human development faces new risks and threats caused by political economic social and environmental forces which are highlighted in a series of engaging case studies on trade water energy the environment democracy human rights and peacebuilding The book also makes the case for why human development remains relevant in an increasingly globalized world while asking whether global institutions will be able to sustain political and moral support from their member states and powerful non state actors It argues that fresh new perspectives on human development are now urgently needed to fill critical gaps across borders and entire regions A positive forward looking agenda for the future of global governance would have to engage with new issues such as the Sustainable Development Goals energy transitions resource scarcity and expansion of democratic governance within and between nations Redefining the overall nature and specific characteristics of what constitutes human progress in an increasingly integrated and interdependent world this book serves as a primer for scholars and graduate students of international relations and development It is also relevant to scholars of economics political science history sociology and women s studies The Growing Gap in Life Expectancy by Income National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Division of Behavioral and Social Sciences and Education, Committee on Population, Committee on the Long-Run Macroeconomic Effects of the Aging U.S. Population--Phase II, 2015-09-17 The U S population is aging Social Security projections suggest that between 2013 and 2050 the population aged 65 and over will almost double from 45 million to 86 million One key driver of population aging is ongoing increases in life expectancy Average U S life expectancy was 67 years for males and 73 years for females five decades ago the averages are now 76 and 81 respectively It has long been the case that better educated higher income people enjoy longer life expectancies than less educated lower income people The causes include early life conditions behavioral factors such as nutrition exercise and smoking behaviors stress and access to health care services all of which can vary across education and income Our major entitlement programs Medicare Medicaid Social

Security and Supplemental Security Income have come to deliver disproportionately larger lifetime benefits to higher income people because on average they are increasingly collecting those benefits over more years than others. This report studies the impact the growing gap in life expectancy has on the present value of lifetime benefits that people with higher or lower earnings will receive from major entitlement programs. The analysis presented in *The Growing Gap in Life Expectancy by Income* goes beyond an examination of the existing literature by providing the first comprehensive estimates of how lifetime benefits are affected by the changing distribution of life expectancy. The report also explores from a lifetime benefit perspective how the growing gap in longevity affects traditional policy analyses of reforms to the nation's leading entitlement programs. This in-depth analysis of the economic impacts of the longevity gap will inform debate and assist decision makers, economists and researchers.

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