

PHYSICAL SCIENCES P.2

MEMO-2024



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

G.12

NATIONAL
SENIOR CERTIFICATE

Diagram on page 9 is redrawn below for easy reference.



Changes to the conditions of equilibrium are made at different times. The graph shows the results obtained. X, Y and Z represent the gases in the above reaction.



2.1.1 Define for both chemical equilibrium

Use the graph to answer the questions below.

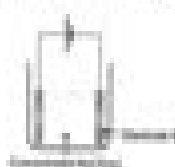
The inorganic reagents shown below are available for reactions IV and Y.

Br ₂	H ₂ SO ₄ (conc.)	NaOH(aq.)	HBr	H ₂
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4.5 Write down the TYPE of elimination in reaction III.

4.6 Compounds R and T are positional isomers.

4.7 Identify the reagent used in reaction IV. (1)



4.8 Draw the half-cell reaction for the zinc electrode. (1)



4.9 Identify the reaction type.

Write a balanced chemical equation for the reaction.

4.10 Draw a half-cell reaction for the copper electrode. (1)

4.11 The simplified diagram below represents an electrochemical cell. The electrodes are made of copper.

Physical Science Paper2 Final Examination 2012grade 10 P

Chao Zhang



Physical Science Paper2 Final Examination 2012grade 10 P:

Educational Research and Innovation Innovating Education and Educating for Innovation The Power of Digital Technologies and Skills OECD,2016-09-26 OECD s Innovation Strategy calls upon all sectors in the economy and society to innovate in order to foster productivity growth and well being Education systems are critically important for innovation through the development of skills that nurture new ideas and technologies *Understanding Employer Engagement in Education* Anthony Mann,Julian Stanley,Louise Archer,2014-05-30 This collection focuses on employer engagement in education how it is delivered and the differentiated impact it has on young people in their progression through schooling and higher education into the labour market The focus is not narrowly on vocational or technical education or work related learning but on how employer engagement eg work experience internships careers education workplace visits mentoring enterprise education etc influences the experiences and outcomes of the broad range of young people across mainstream academic learning programmes The essays explore the different ways in which education can support or constrain social mobility and in particular how employer engagement in education can have significant impact upon social mobility both positive and negative Leading international contributors examine issues surrounding employer engagement and social mobility conceptualisations of employer engagement trends in social mobility employer engagement and social class access and management of work experience social capital and aspiration access to employment The book makes employer engagement an innovative focus in relation to the well established fields of social mobility and school to work transition By examining what difference employer engagement makes the essays raise questions about conventional models and show how research drawing on different fields and disciplines can be brought together to provide a more coherent and convincing account Building on new theorisations and combining existing and new data the collection offers a systematic exploration of the influence of socio economic status on school to work transitions and addresses how educational policy can shape more efficient labour market outcomes In doing so it draws on and speaks to existing literature which has considered such questions from the perspectives of gender ethnicity and social disadvantage Organization and Administration of Physical Education Jayne D. Greenberg,Judy L. LoBianco,2025-03-11 The revised SHAPE America National Physical Education Standards are defining physical education PE programs providing the framework for students physical literacy journeys Organization and Administration of Physical Education Theory and Practice Second Edition With HKPropel Access incorporates the revised standards making it the text administrators need to learn how the standards affect curriculum development and implementation of a successful PE program This edition is thoroughly updated by two award winning educators Jayne Greenberg and Judy LoBianco who are joined by a sterling list of contributors who have taught at every education level in urban suburban and rural settings In this second edition the roles and responsibilities of PE administrators are examined through theoretical and practical lenses Beyond incorporating the revised PE standards and the latest research

throughout other enhancements to this edition include the following An expanded technology chapter that addresses equity and the digital divide remote learning virtual and augmented reality and artificial intelligence A more comprehensive chapter on teacher and program evaluation A new chapter on social emotional learning SEL with connections between content pedagogy and practices A new chapter on diversity equity and inclusion that provides culturally responsive teaching approaches to elevate the participation of underrepresented teachers and students New content for physical education department chairpersons The result is an essential manual for future and current administrators in PE leadership positions who want to acquire new skills in the primary six areas of responsibility Part I explores leadership and management styles and presents practical theories of motivation development and planning for the essential components of a quality PE program In part II readers examine various curriculum instruction and assessment models and get guidance on planning special events Part III helps administrators plan new school facilities or renovate existing ones and it presents contemporary concepts in universal design and sustainable environmental design It also offers ideas on how to incorporate technology including developing online PE courses Part IV explores communication legal issues and human resources so administrators can learn how to advocate for their programs Part V explains the fiscal responsibilities inherent in administrative positions and shows how administrators can secure independent funding offering many examples of grants and fundraising opportunities with sample grant applications Part VI new to this edition explores the integration of content and pedagogy with SEL practices It also offers legal and practical strategies to enhance the involvement of those who are underrepresented in PE Each chapter also includes sidebars from professionals who share tips and insights on successful program implementations To further enhance practical application readers have online access to downloadable forms checklists and other supportive materials Published with SHAPE America this text offers the solid foundational theory and practices needed for today s challenges in PE administration Note A code for accessing HKPropel is included with this ebook

Physics

Education Today Claudio Fazio,Paul Logman,2024-02-12 This book provides an in depth exploration of the latest developments in physics education It presents a comprehensive look into cutting edge research and ideas used to improve physics education around the world Topics covered include but are not limited to the use of problem based learning the design and evaluation of teaching materials and the use of digital technologies This book is essential for anyone looking to stay up to date on the latest educational innovations and to develop an understanding of effective teaching approaches It is aimed at researchers teachers students policymakers and educational leaders in the field of physics education

Rare

Earth Frontiers Julie M. Klinger,2018-01-15 Rare Earth Frontiers is a work of human geography that serves to demystify the powerful elements that make possible the miniaturization of electronics green energy and medical technologies and essential telecommunications and defense systems Julie Michelle Klinger draws attention to the fact that the rare earths we rely on most are as common as copper or lead and this means the implications of their extraction are global Klinger

excavates the rich historical origins and ongoing ramifications of the quest to mine rare earths in ever more impossible places Klinger writes about the devastating damage to lives and the environment caused by the exploitation of rare earths She demonstrates in human terms how scarcity myths have been conscripted into diverse geopolitical campaigns that use rare earth mining as a pretext to capture spaces that have historically fallen beyond the grasp of centralized power These include legally and logistically forbidding locations in the Amazon Greenland and Afghanistan and on the Moon Drawing on ethnographic archival and interview data gathered in local languages and offering possible solutions to the problems it documents this book examines the production of the rare earth frontier as a place a concept and a zone of contestation sacrifice and transformation

Optimize Your School Lyle Lee Jenkins, 2015-05-06 Lead the change that you want to see in your school Is your school or district heading in the right direction In this essential guide for leaders Lee Jenkins shows how to unite and energize your team as never before while helping your students to love learning and crave achievement A trusted advisor to numerous districts Jenkins knows how to successfully transform school culture for the long term Beginning with an introduction from scholar Michael Fullan each chapter presents compelling insights and strategies for leaders addressing how to Evolve your leadership style to guide empower and serve Apply the principles of continuous strategic improvement as an antidote to win lose approaches to school accountability Develop a healthy positive culture of achievement by deeply engaging your students in their own progress and success Turn to this resource and prepare to lead positive change from the classroom to the staff room and beyond This book creates a whole picture approach to school improvement while shunning the current top down model in favor of a school led plan The approach not only increases school performances but values the school level leadership and instructional faculty Amanda Mayeaux Career Management Specialist Iberville Parish Schools If your district is ready to move from arbitrary to observable from fractured to focused and from silos to systems you've found the book that can move entire organizations from a goal mindset to a growth mindset Lee Jenkins provides common sense strategies that impact the efficiency and effectiveness of our classrooms with a clear focus on student growth In an educational era saturated with the latest remedy for what ails us Lee provides a refreshing cure by offering simple solutions for lasting change Dr Jane Stavem Associate Superintendent for Instruction Lincoln Public Schools Lincoln NE

How People Learn II National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Science Education, Board on Behavioral, Cognitive, and Sensory Sciences, Committee on How People Learn II: The Science and Practice of Learning, 2018-10-27 There are many reasons to be curious about the way people learn and the past several decades have seen an explosion of research that has important implications for individual learning schooling workforce training and policy In 2000 *How People Learn: Brain, Mind, Experience, and School* Expanded Edition was published and its influence has been wide and deep The report summarized insights on the nature of learning in school aged children described principles for the design of effective learning environments and provided

examples of how that could be implemented in the classroom Since then researchers have continued to investigate the nature of learning and have generated new findings related to the neurological processes involved in learning individual and cultural variability related to learning and educational technologies In addition to expanding scientific understanding of the mechanisms of learning and how the brain adapts throughout the lifespan there have been important discoveries about influences on learning particularly sociocultural factors and the structure of learning environments How People Learn II Learners Contexts and Cultures provides a much needed update incorporating insights gained from this research over the past decade The book expands on the foundation laid out in the 2000 report and takes an in depth look at the constellation of influences that affect individual learning How People Learn II will become an indispensable resource to understand learning throughout the lifespan for educators of students and adults

Emerging Research in Agricultural Teacher Education

Barrick, R. Kirby, Thoron, Andrew C., 2024-05-06 Struggling to navigate the complex landscape of agricultural teacher education scholars face a daunting challenge the need for a comprehensive research synthesis tailored to their specific needs While valuable existing resources often need to provide the focused guidance required to address this discipline s myriad issues This gap leaves scholars needing a clear roadmap for advancing agricultural teacher education hindering progress and innovation in the field Emerging Research in Agricultural Teacher Education revolutionizes the field of education through agricultural research Offering a comprehensive synthesis of current research and proposing crucial areas for future investigation this book serves as the definitive solution to the challenges plaguing scholars in the field Consolidating decades of research and expertise into a single accessible volume it provides scholars with the tools they need to navigate the complexities of agricultural teacher education with confidence and clarity

Encyclopedia of Renewable and Sustainable Materials

, 2020-01-09 Encyclopedia of Renewable and Sustainable Materials Five Volume Set provides a comprehensive overview covering research and development on all aspects of renewable recyclable and sustainable materials The use of renewable and sustainable materials in building construction the automotive sector energy textiles and others can create markets for agricultural products and additional revenue streams for farmers as well as significantly reduce carbon dioxide CO2 emissions manufacturing energy requirements manufacturing costs and waste This book provides researchers students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development selection and use of construction and manufacturing materials Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing use application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials

Ergonomic Workplace Design for Health, Wellness, and Productivity

Alan Hedge, 2016-08-05 Even with today s mobile technology most work is still undertaken in a physical workplace Today s

workplaces need to be healthy environments that minimize the risks of illnesses or injuries to occupants to compete in the marketplace This necessitates the application of good ergonomics design principles to the creation of effective workplaces and this is the focus of this book This book will Focus on ergonomic design for better health and ergonomic design for better productivity Presents environments that support new ways of working and alternative workplace strategies as well as the impacts of new technologies Covers the role of ergonomics design in creating sustainable workplaces Includes ergonomics design for a wide variety of workplaces from offices to hospitals to hotels to vehicles etc Shows the design principles on how to design and create a healthy and productive workplace The market lacks an ergonomics design book that covers the topics that this book will cover This book summarizes design principles for practitioners and applies them to the variety of workplace settings described in the book No other book currently on the market does that The Routledge Handbook of Disability in Southern Africa Tsitsi Chataika,2018-07-27 This comprehensive ground breaking southern African centred collection spans the breadth of disability research and practice Reputable and emerging scholars together with disability advocates adopt a critical and interdisciplinary stance to prove challenge and shift commonly held social understanding of disability in traditional discourses frontiers and practices in prominent areas such as inter national development disability studies education culture health religion gender sports tourism ICT theatre media housing and legislation This handbook provides a body of interdisciplinary analyses suitable for the development of disability studies in southern Africa Through drawing upon and introducing resources from several disciplines theoretical perspectives and personal narratives from disability activists it reflects on disability and sustainable development in southern Africa It also addresses a clear need to bring together interdisciplinary perspectives and narratives on disability and sustainable development in ways that do not undermine disability politics advanced by disabled people across the world The handbook further acknowledges and builds upon the huge body of literature that understands the social cultural educational psychological economic historical and political facets of the exclusion of disabled people The handbook covers the following broad themes Disability inclusion ICT and sustainable development Access to education from early childhood development up to higher education Disability employment entrepreneurship and community based rehabilitation Religion gender and parenthood Tourism sports and accessibility Compelling narratives from disability activists on societal attitudes toward disability media advocacy accessible housing and social exclusion Thus this much awaited handbook provides students academics practitioners development partners policy makers and activists with an authoritative framework for critical thinking and debates that inform policy and practice in incomparable ways with the view to promoting inclusive and sustainable development Light Metals 2025 Les Edwards,2025-03-02 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2025 collection

includes contributions from the following symposia Alumina Bauxite Aluminum Alloys Development and Manufacturing Aluminum Reduction Technology Decarbonization and Sustainability in Aluminum Primary Processing Joint Session of Aluminum Reduction Electrode Technology and REWAS 2025 Electrode Technology for Aluminum Production Melt Processing Casting and Recycling Recycling and Sustainability in Cast Shop Technology Joint Session with REWAS 2025 Scandium Extraction and Use in Aluminum Alloys

Investigating Ramps & Pathways with Young Children (Ages 3-8)
 Beth Dykstra Van Meeteren, 2022-12-23 Children are intrigued by moving objects even more so when they can engineer the movement This volume in the STEM for Our Youngest Learners Series uses Ramps and Pathways as a context to provide children ages 3 8 with opportunities to engage in STEM every day Ramps and Pathways is a meaningful and fun way for children to develop engineering habits of mind as they explore concepts in force and motion properties of objects and how an object s properties affect its movement In the process children develop spatial thinking that is essential for future careers in STEM The text also offers guidance for arranging the physical intellectual social emotional and promotional environments of a classroom to embrace the natural integration of literacy learning Each volume in this series includes guidance for forming partnerships with families and administrators that support STEM learning vignettes showing educators and children engaging in inquiry learning tips for selecting materials modifications and accommodations for diverse learners ways to establish adult learning communities that support professional development and more Book Features Alignment with both the Head Start Early Learning Outcomes Framework ELOF and the NGSS Science and Engineering Practices with specific descriptions of how those science and engineering practices in Ramps and Pathways look and feel in Pre K 2 classrooms Examples of how to integrate literacy learning in a meaningful way Descriptions of how the open ended nature of ramps and pathways aligns with the Universal Design for Learning Framework UDL Guidance to help teachers anticipate and plan for all children to become purposeful motivated resourceful knowledgeable strategic and goal directed about learning Examples of how to stage introduce and support children s designs to develop engineering habits of mind systems thinking optimism creativity communication collaboration attention to ethical considerations A meaningful and healthy context to grow children s executive function skills EFs including inhibitory control working memory and cognitive flexibility

Teaching and Time Poverty
 Greg Thompson, Anna Hogan, 2024-12-04 As teacher shortages reach a global crisis point this book explores how time poverty has become a critical factor in the working lives of teachers and school leaders Arguing that we need to move away from framing the problem of teachers work as simply workload this book suggests that understanding time poverty is the first step in moving toward more manageable working lives The book brings together international perspectives on teacher time poverty drawing on theoretical and empirical work to underscore the growing complexity of teachers work and how this impacts job satisfaction stress and feeling that there is never enough time to accomplish all that needs to be done Many policy solutions misdiagnose the problems of teachers work simply suggesting it is an issue of workload The chapters

investigate issues of work intensification finding that teachers are not only working longer but also working harder as they manage more complex classrooms and policy mandates This book is essential reading for those interested in understanding how current education policy both produces time poverty and could better identify and respond to the complexities of teachers work Learning as Development Daniel A. Wagner,2017-10-04 Learning is the foundation of the human experience It begins at birth and never stops a continuous and malleable link across life stages of human development Disparities in learning access and outcomes around the world have deep consequences for income social mobility health and well being For international development practitioners faced with today s unprecedented environmental and geopolitical pressures learning should be viewed as a touchstone and target for those seeking to truly effect global change This book traces the path of international development work from its pre colonial origins to the emergence of economics as the dominant discipline in the field and lays out a new agenda for policymakers researchers and practitioners from early education through adulthood Learning as Development is an attempt to rethink international education in a changing world

Processes in Continental Lithospheric Deformation Sydney Procter Clark,B. C. Burchfiel,John Suppe,1988

Geotechnical Engineering Jean-Louis Briaud,2013-10-28 Written by a leader on the subject Introduction to Geotechnical Engineering is first introductory geotechnical engineering textbook to cover both saturated and unsaturated soil mechanics Destined to become the next leading text in the field this book presents a new approach to teaching the subject based on fundamentals of unsaturated soils and extending the description of applications of soil mechanics to a wide variety of topics This groundbreaking work features a number of topics typically left out of undergraduate geotechnical courses

International Handbook of Research on Children's Literacy, Learning and Culture Kathy Hall,Teresa Cremin,Barbara Comber,Luis C. Moll,2016-10-31 The International Handbook of Research in Children s Literacy Learning and Culture presents an authoritative distillation of current global knowledge related to the field of primary years literacy studies Features chapters that conceptualize interpret and synthesize relevant research Critically reviews past and current research in order to influence future directions in the field of literacy Offers literacy scholars an international perspective that recognizes and anticipates increasing diversity in literacy practices and cultures

Connecting Physics Education Research and Practice Italo Testa,Marisa Michelini,Salvatore Esposito,2025-08-15 This book presents a selection of the most recent research results from the Italian physics education research community aimed at enhancing the teaching and learning of physics The motivation for this publication arises from the lack of a comprehensive reference for teachers on research results in physics education Despite various physics curriculum reform initiatives such as the introduction of modern physics into high school curricula their effectiveness in improving the quality of physics teaching in schools has been limited The book offers a contextualized view of the main topics in physics education along with a comprehensive overview of the current challenges faced by physics education in Italy and abroad It also presents research findings that could potentially enhance

students learning of physics Throughout the book the implications of these studies are outlined acknowledging issues and knowledge gaps that will guide future research in physics education Specifically rather than covering all the contents addressed in the physics curriculum the book presents research contributions that suggest potentially effective strategies methods and practices at different school levels from primary school to secondary school and university level Regarding physics content the book presents teaching proposals highlighting conceptual aspects and exemplary methodologies of interpretation in physics such as the physics of fluids and quantum mechanics It also includes research contributions on different methods and proposals for implementing practical activities reflecting on the role of the laboratory in learning the discipline and providing examples of integrating experimental and cognitive skills The book also addresses the role of affective variables such as physics identity self efficacy and attitudes toward physics in the learning process Additionally studies on teachers professional development are presented which can inform the design of proposals for educational paths and methods within a framework of close collaboration between schools and physics departments

Drawing for Science Education Phyllis Katz, 2017-03-23 This book argues for the essential use of drawing as a tool for science teaching and learning The authors are working in schools universities and continual science learning CSL settings around the world They have written of their experiences using a variety of prompts to encourage people to take pen to paper and draw their thinking sometimes direct observation and in other instances their memories The result is a collection of research and essays that offer theory techniques outcomes and models for the reader Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach classrooms Secondary students describe their ideas of chemistry and physics Teacher educators use drawings to consider the progress of their undergraduates understanding of science teaching and even their moral ethical responses to teaching about climate change Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted A physician explains how the history of drawing has been a critical tool to medical education and doctor patient communications Each chapter contains samples insights and where applicable analysis techniques The chapters in this book should be helpful to researchers and teachers alike across the teaching and learning continuum The sections are divided by the kinds of activities for which drawing has historically been used in science education An instance of observation Audubon Linnaeus A process how plants grow over time what happens when chemicals combine Conceptions of what science is and who does it Images of identity development in science teaching and learning

Unveiling the Power of Verbal Art: An Mental Sojourn through **Physical Science Paper2 Final Examination 2012grade 10 P**

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