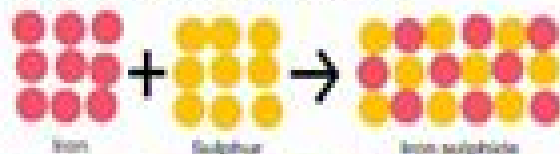


Topic 2: Chemical Change (P 114-129)

Unit 1: Physical & Chemical Change

- Physical change = change in matter that can be reversed.
- 2 substances that are mixed and can be separated by physical means.
- E.g. solid water (ice) is arranged in crystal lattice.
 - Heat breaks the lattice - transforming it into liquid water and gas (water vapor).
 - Atoms in water remain bonded due to strong forces.
- Chemical change = changing something so that it can't be changed back to its original state.
- E.g. heating iron and sulphur together creates a brown, sticky substance called iron sulphide (FeS).
 - This new substance has different properties from the old one (FeS isn't magnetic).
 - Heating sulphur with iron causes atoms to break apart and rejoin in a strong chemical bond - new lattice formed.



- Chemical changes require more energy than physical ones.

Physical Change	Chemical Change
Easy to reverse.	Difficult to reverse.
No new chemical substances form.	New chemical substances form.
Require small amounts of energy.	Require large amounts of energy.

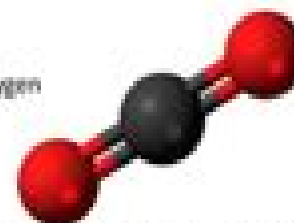
Unit 2: Conservation of Atoms During Chemical Change

Law of Conservation of Matter

- No. of atoms doesn't change when a chemical reaction occurs.
- No. molecules may change.
- Law of conservation of matter = mass of reactants and mass of products stays the same.

Law of Constant Proportions

- Law of constant proportions = a chemical compound always contains the same elements in fixed proportions by mass.
- E.g. CO₂:
 - Relative atomic mass of carbon = 12.
 - Relative atomic mass of oxygen = 16 (2 oxygen atoms required in CO₂).
 - Total relative atomic mass of CO₂ is 12 + 16 + 16 = 44.



- Ratio of carbon to oxygen remains constant - any mass of CO₂ will be $\frac{12}{44}$ carbon and $\frac{32}{44}$ oxygen.
- Ratio of mass of carbon to oxygen is always 12:32 or 3:8 in any amount of CO₂, irrespective of how it is formed.

Unit 3: Representing Chemical Change

Balanced Chemical Equations

- Chemical change is represented by chemical equations.
- Substances on the left of the arrow = reactants.
- Substances on the right of the arrow = products.

Grade 10 Physical Science 2014 Exemplar

**Jennifer Curry, Jennifer R. Curry, Amy
Milsom**



Grade 10 Physical Science 2014 Exemplar:

Guidebook on Education for Sustainable Development for Educators UNESCO, 2018-12-31 **Meeting the Challenges to Measurement in an Era of Accountability** Henry Braun, 2016-01-29 Under pressure and support from the federal government states have increasingly turned to indicators based on student test scores to evaluate teachers and schools as well as students themselves The focus thus far has been on test scores in those subject areas where there is a sequence of consecutive tests such as in mathematics or English language arts with a focus on grades 4-8 Teachers in these subject areas however constitute less than thirty percent of the teacher workforce in a district Comparatively little has been written about the measurement of achievement in the other grades and subjects This volume seeks to remedy this imbalance by focusing on the assessment of student achievement in a broad range of grade levels and subject areas with particular attention to their use in the evaluation of teachers and schools in all It addresses traditional end of course tests as well as alternative measures such as portfolios exhibitions and student learning objectives In each case issues related to design and development psychometric considerations and validity challenges are covered from both a generic and a content specific perspective The NCME Applications of Educational Measurement and Assessment series includes edited volumes designed to inform research based applications of educational measurement and assessment Edited by leading experts these books are comprehensive and practical resources on the latest developments in the field The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license Measurement and Evaluation in Physical Education and Exercise Science Skip M. Williams, Alan C. Lacy, 2018-02-13 The eighth edition of *Measurement and Evaluation in Physical Education and Exercise Science* now published in paperback and hardback offers students a clear and practical guide to best practice for measurement and evaluation in school and nonschool based physical activity programs Written by two academics with backgrounds in physical education teacher education PETE the book emphasizes the link between theory and practice and reflects the most recent changes in national physical education programs It covers a full range of introductory topics including current trends in measurement and evaluation program development statistics test selection and an expanded chapter on alternative assessment before introducing measurement for health related physical fitness measurement for psychomotor skills measurement for cognitive knowledge measurement for affective behaviors grading self evaluation Each chapter features learning aids such as objectives key terms practical applications and review questions while an appendix offers in depth Excel assignments Offering a full companion website featuring an instructor's manual lecture slides and a test bank *Measurement and Evaluation in Physical Education and Exercise Science* is a complete resource for instructors and students alike It is an essential text for students in measurement and evaluation classes as part of a degree program in physical education exercise science or kinesiology and a valuable reference for practitioners seeking to inform their professional

practice *Remapping Africa in the Global Space* Edward Shizha, 2014-11-26 What are the benefits and risks for Africa's participation in the globalisation nexus *Remapping Africa in the Global Space* is a visionary and interdisciplinary volume that restores Africa's image using a multidisciplinary lens. It incorporates disciplines such as sociology, education, global studies, economics, development studies, political science, and philosophy to explore and theorise Africa's reality in the global space and to deconstruct the misperceptions and narratives that often infantilise Africa's internal and international relations. The contributions to this volume are a hybrid of both outsider and insider perspectives that create a balanced critical discourse that can provide standard paradigms that can adequately explain, predict or prevent Africa's current misperceptions and myths about the African crisis and failure status. The authors provide a holistic and perhaps anticolonial and anti-hegemonic perspective that can benefit a wide spectrum of academics, scholars, students, development agents, policy makers in both governmental and non-governmental organisations and engage some alternative analyses and possibilities for socio-political and economic advancement in Africa. The book provides up-to-date scholarly research on continental trends on various subjects and concerns of paramount importance to globalisation and development in Africa. The book is brilliant. *Remapping Africa in the Global Space: Propositions for Change* explores Africa from the perspective of academics specialised in subject matters pertaining to the continent. In this age of globalisation, I find this book invaluable. It is a good read as it dissects, analyses and presents issues affecting the continent in an articulate and cogent way. I highly recommend its use in academic institutions. Magnus Mfoafo M. Carthy, Assistant Professor, Lyle S. Hallman, Faculty of Social Work, Fellow of Tshepo Institute for the Study of Contemporary Africa, Wilfrid Laurier University, Kitchener, Canada. More than anything else, *Remapping Africa in the Global Space: Propositions for Change* speaks to the complex, multifaceted and interfused character of the development challenges and prospects of Africa. Indeed, few books have examined contemporary Africa as comprehensively and insightfully as this edited volume. It is widely welcomed in the African academic, scholarly and research arena. Joseph Mensah, Professor of Geography, York University, Toronto.

Adolescence J. Roy Hopkins, 2014-05-10 *Adolescence: The Transitional Years* presents the intricate physical, emotional and behavioral changes that occur during the years between childhood and adulthood. This book provides psychological studies of adolescence and the methods used to gain information about adolescent development. Organized into 12 chapters, this book begins with an overview of the contributions of psychology to understanding the transition from childhood to adulthood. This text then reviews the changes at puberty, including the sequence of development for girls and boys and the underlying physiological mechanisms responsible. Other chapters consider the cultural variations in the mode of transition from childhood to adulthood. This book provides as well a brief overview of the psychological dimensions of self-identity. The final chapter deals with the educational experience for adolescents and examines the factors associated with different levels of educational attainment. This book is a valuable resource for developmental psychologists, sociologists, geneticists, anthropologists, theorists and research workers.

Introducing Teachers and Administrators to the NGSS Eric Brunsell, Deb M. Kneser, Kevin J. Niemi, 2014-05-01 If you're charged with helping educators achieve the vision of the new science standards this is the professional development resource you need. This book is chock full of activities and useful advice for guiding teachers and administrators as they put the standards into practice in the classroom. Written by three experts in professional development for science teachers. *Introducing Teachers and Administrators to the NGSS* Introduces the vocabulary structure and conceptual shifts of the NGSS. Explores the three dimensions of the Framework: science and engineering practices, crosscutting concepts, and disciplinary core ideas, and how they're integrated in the NGSS. Provides classroom case studies of instructional approaches for students challenged by traditional science teaching. Covers curricular decisions involving course mapping, designing essential questions, and performance assessments, and using the NGSS to plan units of instruction. Examines the connections between the NGSS and the Common Core State Standards. Offers advice for getting past common professional development sticking points and finding further resources. Given the widespread changes in today's education landscape, teachers and administrators may feel overwhelmed by the prospect of putting the new standards into practice. If you're a science specialist, curriculum coordinator, or instructional coach who provides professional development, you will find this collection immensely helpful for heading off initiative fatigue, whether in an individual school or throughout a district. **Seeing Science**

Through the Eyes of Canadian Teachers and Learners Christine D. Tippet, *Discourse, Conversation and Argumentation: Theoretical Perspectives and Innovative Empirical Studies - Volume I* Antonio Bova, Carlo Galimberti, Lise Haddouk, Francesco Arcidiacono, 2021-12-06 **Science Education in Canada** Christine D. Tippet, Todd M. Milford, 2019-07-01 This book offers a meso-level description of demographics, science education, and science teacher education. Representing all 13 Canadian jurisdictions, the book provides local insights that serve as the basis for exploring the Canadian system as a whole and function as a common starting point from which to identify causal relationships that may be associated with Canada's successes. The book highlights commonalities, consistencies, and distinctions across the provinces and territories in a thematic analysis of the 13 jurisdiction-specific chapters. Although the analysis indicates a network of policy and practice issues warranting further consideration, the diverse nature of Canadian science education makes simple identification of causal relationships elusive. Canada has a reputation for strong science achievement. However, there is currently limited literature on science education in Canada at the general level or in specific areas such as Canadian science curriculum or science teacher education. This book fills that gap by presenting a thorough description of science education at the provincial/territorial level as well as a more holistic description of pressing issues for Canadian science education.

Language and Literacy Connections Geraldine P. Wallach, Alaine Ocampo, 2020-12-03 *Language and Literacy Connections: Intervention for School Age Children and Adolescents* takes readers on a path of knowledge steeped in principles and practical applications. This much-needed new text uniquely integrates language learning and disorders and

literacy together in a coherent and cohesive narrative that covers the challenges facing school age students from early elementary levels through high school Using past and current research and interventions from speech language pathology SLP and reading and literacy arenas the authors present transcripts cases and detailed intervention sessions to provide a template for daily practice The text raises questions relating to why am I doing this and provides some answers to this most complex yet basic question Language and Literacy Connections Uses strong theoretical foundations with detailed applications to real life situations and practices Highlights the different levels of literacy from foundational to disciplinary that underpin current thinking Includes three major sections that build upon one another as the authors navigate through 1 conceptual frameworks 2 practical applications across discourse intervention and individual language components and 3 service delivery models Addresses the role of comprehension in auditory processing and classroom difficulties Compares effective and less effective intervention sessions with explanations about why each fall within a category Debunks common myths and practices that have been questionable for decades but that persist in practice Offers innovative suggestions related to providing collaborative service delivery procedures through virtual online platforms and specific lesson plans Answers the question asked by many school based SLPs How do I add literacy on top of my responsibilities when my caseloads are so large and demanding Key Features Questions at the beginning of each chapter that reflect concerns of SLPs and their teams Projects and assignments that supplement and review the material Examples of teaching modules with practical lesson plans that integrate the role of SLPs in Interprofessional Practices IPP while explicitly addressing the curriculum across a variety of subject areas Disclaimer Please note that ancillary content such as documents audio and video etc may not be included as published in the original print version of this book

Interest in Mathematics and Science Learning Ann Renninger, Martina Nieswandt, Suzanne Hidi, 2015-04-19 Interest in Mathematics and Science Learning edited by K Ann Renninger Martin Nieswandt and Suzanne Hidi is the first volume to assemble findings on the role of interest in mathematics and science learning As the contributors illuminate across the volume s 22 chapters interest provides a critical bridge between cognition and affect in learning and development This volume will be useful to educators researchers and policy makers especially those whose focus is mathematics science and technology education

UNESCO science report UNESCO, 2015-11-09 There are fewer grounds today than in the past to deplore a North South divide in research and innovation This is one of the key findings of the UNESCO Science Report towards 2030 A large number of countries are now incorporating science technology and innovation in their national development agenda in order to make their economies less reliant on raw materials and more rooted in knowledge Most research and development R D is taking place in high income countries but innovation of some kind is now occurring across the full spectrum of income levels according to the first survey of manufacturing companies in 65 countries conducted by the UNESCO Institute for Statistics and summarized in this report For many lower income countries sustainable development has become an integral part of their national development plans

for the next 10 20 years Among higher income countries a firm commitment to sustainable development is often coupled with the desire to maintain competitiveness in global markets that are increasingly leaning towards green technologies The quest for clean energy and greater energy efficiency now figures among the research priorities of numerous countries Written by more than 50 experts who are each covering the country or region from which they hail the UNESCO Science Report towards 2030 provides more country level information than ever before The trends and developments in science technology and innovation policy and governance between 2009 and mid 2015 described here provide essential baseline information on the concerns and priorities of countries that could orient the implementation and drive the assessment of the 2030 Agenda for Sustainable Development in the years to come The Cambridge Handbook of Motivation and Learning K. Ann Renninger, Suzanne E. Hidi, 2019-02-14 Written by leading researchers in educational and social psychology learning science and neuroscience this edited volume is suitable for a wide academic readership It gives definitions of key terms related to motivation and learning alongside developed explanations of significant findings in the field It also presents cohesive descriptions concerning how motivation relates to learning and produces a novel and insightful combination of issues and findings from studies of motivation and or learning across the authors collective range of scientific fields The authors provide a variety of perspectives on motivational constructs and their measurement which can be used by multiple and distinct scientific communities both basic and applied Career and College Readiness Counseling in P-12 Schools, Third Edition Jennifer Curry, Jennifer R. Curry, Amy Milsom, 2021-10-27 Curry and Milsom take an intentional and realistic approach to career development that is inclusive of all students at each developmental stage and they recognize that the training and path to pursuing a career is unique to each person They offer action oriented career development approaches that school counselors can utilize to supplement classroom learning and engage communities This book is beneficial to new and veteran school counselors and highlights relevant and real life issues students are dealing with and the impact on their career choices Dodie Limberg PhD Associate Professor University of South Carolina This text is written to help school counselors conceptualize the career and college readiness needs of diverse P 12 students and design culturally relevant interventions The focus is on helping readers to translate theoretical knowledge into practice Grounded in current data and research the text helps counselors to design sequential and developmentally appropriate career and college readiness curricula interventions and strategies Addressing career development and college readiness by grade level it describes and underscores the importance of collaborative approaches and interventions supporting school family community partnerships Case examples and Voices from the Field written by practicing school counselors demonstrate and reinforce concepts and interventions in each chapter Purchase includes digital access for use on most mobile devices or computers and an instructor s manual New to the Third Edition Updated workforce educational and demographic statistics Enhanced content on culturally responsive school counseling practices The impact of social media on student development Coverage of the

changing culture of higher education recruitment Postsecondary transition planning for students with disabilities Work based learning opportunities career and technical education pathways Gap year information Verbatim advice and wisdom from experienced counselors who demonstrate concepts and interventions Enhanced instructor s manual including sample syllabus PowerPoints project based learning activities discussion prompts exam questions and related online activities games and apps Key Features Provides current data and research addressing career and college readiness needs of diverse populations Reviews developmental ecosystemic and career theories Describes interventions and strategies grounded in theory Discusses collaborative approaches supporting school family community partnerships Offers separate chapters on interventions by grade level Mirrors the most recent versions of the ASCA National Model and CACREP standards **An**

Introduction to Intermediate and Advanced Statistical Analyses for Sport and Exercise Scientists Nikos

Ntoumanis, Nicholas D. Myers, 2016-01-19 Ntoumanis and Myers have done sport and exercise science researchers and students a tremendous service in producing *An Introduction to Intermediate and Advanced Statistical Analyses for Sport and Exercise Scientists* This book has an outstanding compilation of comprehensible chapters dealing with the important concepts and technical minutia of the statistical analyses that sport and exercise science scholars use or should be using in their efforts to conduct meaningful research in the field It is a resource that all sport and exercise scientists and their students should have on their book shelves Robert Eklund School of Sport University of Stirling UK Motivating to have a statistics text devoted to enabling researchers studying sport and exercise science to apply the most sophisticated analytical techniques to their data Authors hit the mark between using technical language as necessary and user friendly terms or translations to keep users encouraged Text covers traditional and well used tools but also less common and more complex tools but always with familiar examples to make their explanations come alive As a dynamic systems theorist and developmentalist I would love to see more researchers in my area create study designs that would enable the use of tools outlined here such as multilevel structural equation modeling MSEM or mediation moderation analyses to uncover cascades of relations among subsystems contributing to motor performance over time This text can facilitate that outcome Beverly D Ulrich School of Kinesiology University of Michigan USA The domain of quantitative methods is constantly evolving and expanding This means that there is tremendous pressure on researchers to stay current both in terms of best practices and improvements in more traditional methods as well as increasingly complex new methods With this volume Ntoumanis and Myers present a nice cross section of both helping sport and exercise science researchers to address old questions in better ways and even more excitingly to address new questions entirely I have no doubt that this volume will quickly become a lovingly dog eared companion for students and researchers helping them to continue to move the field forward Gregory R Hancock University of Maryland and Center for Integrated Latent Variable Research CILVR USA *Handbook of Computational Social Science, Volume 1* Uwe Engel, Anabel Quan-Haase, Sunny Liu, Lars E Lyberg, 2021-11-10 The Handbook

of Computational Social Science is a comprehensive reference source for scholars across multiple disciplines. It outlines key debates in the field showcasing novel statistical modeling and machine learning methods and draws from specific case studies to demonstrate the opportunities and challenges in CSS approaches. The Handbook is divided into two volumes written by outstanding internationally renowned scholars in the field. This first volume focuses on the scope of computational social science ethics and case studies. It covers a range of key issues including open science, formal modeling and the social and behavioral sciences. This volume explores major debates, introduces digital trace data, reviews the changing survey landscape and presents novel examples of computational social science research on sensing, social interaction, social robots, bots, sentiment manipulation and extremism in social media. The volume not only makes major contributions to the consolidation of this growing research field but also encourages growth in new directions. With its broad coverage of perspectives, theoretical, methodological, computational, international scope and interdisciplinary approach, this important resource is integral reading for advanced undergraduates, postgraduates and researchers engaging with computational methods across the social sciences as well as those within the scientific and engineering sectors. K-12 Mathematics

Education In Israel: Issues And Innovations Nitsa Movshovitz-hadar, 2018-02-28. The book provides the reader with a multifaceted picture of mathematics education in Israel put into an international perspective where relevant. It is intended to give an overview of a wide range of topics covering issues such as raising and maintaining motivation, search for excellence, treatment of difficulties, teacher education, language issues, minorities issues, curriculum changes over the first 70 years of the state of Israel and many more. This includes aspects of research and practice into the teaching and learning of mathematics, innovation, developments, policy achievements and implementation with some international comparison as well.

Contemporary Intellectual Assessment Dawn P. Flanagan, Erin M. McDonough, 2022-12-05. In one volume, this authoritative reference presents a current comprehensive overview of intellectual and cognitive assessment with a focus on practical applications. Leaders in the field describe major theories of intelligence and provide the knowledge needed to use the latest measures of cognitive abilities with individuals of all ages from toddlers to adults. Evidence-based approaches to test interpretation and their relevance for intervention are described. The book addresses critical issues in assessing particular populations including culturally and linguistically diverse students, gifted students and those with learning difficulties and disabilities in today's educational settings. *Youth Substance Abuse* David E. Newton, 2016-07-18. This text provides readers with an in-depth understanding of the essential aspects of youth substance abuse, an important contemporary personal, social and public health issue. Humans have been using natural and synthetic chemicals for at least two millennia primarily for the purpose of treating medical problems but also for recreational purposes. The 2014 Monitoring the Future survey of eighth, tenth and twelfth grade students indicates a general decline in the use of illicit drugs over the last two decades. On the other hand, perceptions among youth that certain types of drug use like marijuana and e-cigarettes

are harmless are growing Youth Substance Abuse A Reference Handbook provides an overview of the history and development of youth substance abuse along with a discussion of the medical social psychological legal and economic issues associated with youth substance abuse both in the United States and other parts of the world The book begins with a comprehensive introduction to the subject of youth substance abuse that explains how modern societies have reached the point where abuse of both legal and illegal substances is a major health issue in many nations Readers will learn about the effects of substances such as cocaine marijuana and heroin as well as substances that are typically legal but have deleterious health social or psychological effects such as tobacco alcohol prescription drugs and electronic cigarettes Subsequent chapters address how and why youth substance abuse has become a problem in the United States and other countries the demographics of this widespread problem the direct and indirect effects of youth substance abuse and addiction and the range of services and methods that are available for treating substance abuse

International Handbook on Education in Southeast Asia Lorraine Pe Symaco, Martin Hayden, 2021-12-23 This International Handbook provides a detailed account of the education systems of 11 Southeast Asian nations including Brunei Darussalam Cambodia Indonesia Lao People's Democratic Republic Malaysia Myanmar the Philippines Singapore Thailand Timor Leste and Vietnam It presents a systematic sector by sector explanation of how these national education systems deliver educational services and respond to national and international issues and challenges With 56 chapters the International Handbook is the region's most comprehensive educational reference source In the first of its chapters the editors introduce the regional context and draw attention to the distinctive characteristics of each of the 11 systems Southeast Asia representing 8.5% of the world's population is as dynamic as it is diverse The International Handbook charts progress and establishes a benchmark for documenting future developments It also provides a stepping off point for more detailed investigations of decision making processes and outcomes across the 11 national education systems

Grade 10 Physical Science 2014 Exemplar: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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