

SBA GUIDELINES

Practical work:

- Learners do TWO experiments (ONE Chemistry, ONE Physics) for SBA.
- Term 2: Heating/cooling curve of water.
- Term 3: Measurement of velocity & position/time, velocity/time and acceleration/time graphs for a moving trolley.

2024 ATP: Grade 10 – Term 1: PHYSICAL SCIENCES

Week	Knowledge Area	Page in CAPS doc	Concepts for week	Date completed	SMT Member Signature	% curriculum coverage	
						Per term	Annual
Week 1 17-19 Jan	WAVES, SOUND AND LIGHT: - Transverse pulses on a string/spring. - Transverse waves (2HR5)	25 - 28	• Define a pulse, a transverse pulse and amplitude. • Define the principle of superposition. • Define constructive interference and destructive interference. • Apply the principle of superposition to pulses to explain, using diagrams, how two pulses that reach the same point in the same medium superpose constructively and destructively and then continue in the original direction of motion. • Define a transverse wave. • Define wavelength, frequency, period, amplitude, crest and trough of a wave. • Explain the wave concepts in and out of phase. • Identify the wavelength, amplitude, crests, troughs, points in phase and points out of phase on a drawing of a transverse wave. Informal test			6%	2%
Week 2 22-26 Jan	WAVES, SOUND AND LIGHT: - Transverse waves - - Longitudinal waves (4HR5)	25 - 28	Transverse waves • Use the relationship between frequency and period to solve problems. $f = \frac{1}{T}$ • Define wave speed as the distance travelled by a point on a wave per unit time. • Use the wave equation ($v = f\lambda$) to solve problems involving waves. Longitudinal waves • Define a longitudinal wave. • Draw a diagram to represent a longitudinal wave in a spring, showing the direction of motion of the wave relative to the direction in which the particles move. • Define the wavelength and amplitude of a longitudinal wave. • Define a compression and a rarefaction. • Differentiate between longitudinal and transverse waves. Informal test			18%	6%
Week 3 29 Jan- 2 Feb	WAVES, SOUND AND LIGHT: Longitudinal waves (2HR5) Sound (2HR5)	27 - 29	• Define the period and frequency of a longitudinal wave. • Use the relationship between frequency and period to solve problems. $T = \frac{1}{f}$ • Define wave speed as the distance travelled by a point on a wave per unit time. • Use the wave equation ($v = f\lambda$) to solve problems involving longitudinal waves. Sound • Describe a sound wave as a longitudinal wave. • Explain the relationship between wave speed and the properties of the medium in which the wave travels (gas, liquid or solid). • Describe echoes as reflections of sound waves. • Use the wave equation ($v = f\lambda$) to solve problems involving sound waves including echoes, e.g. sonar, bats and dolphins.			30%	9%

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Raffaela Di Napoli

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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Microbes in the Spotlight A. Méndez-Vilas, 2016-06-28 *Microbes in the Spotlight* Recent Progress in the Understanding of Beneficial and Harmful Microorganisms contains a selection of papers presented at the VI International Conference on Environmental Industrial and Applied Microbiology BioMicroWorld2015 Barcelona Spain This book offers the outcomes of completed and outgoing research works and experiences of several microbiology research groups across the world The volume is divided into the following sections Agricultural and environmental microbiology Biodeterioration biodegradation bioremediation Food microbiology Medical microbiology Antimicrobial agents and chemotherapy Antimicrobial resistance Industrial microbiology Microbial production of high value products Biotechnologically relevant enzymes and proteins Methods and technology development Microbial physiology Readers will find this book a useful opportunity to keep up with the latest research results insights and advances in the microbiology field **Computational Science and Its**

Applications - ICCSA 2023 Workshops Osvaldo Gervasi, Beniamino Murgante, Ana Maria A. C. Rocha, Chiara Garau, Francesco Scorza, Yeliz Karaca, Carmelo M. Torre, 2023-06-30 This nine volume set LNCS 14104 14112 constitutes the refereed workshop proceedings of the 23rd International Conference on Computational Science and Its Applications ICCSA 2023 held at Athens Greece during July 3 6 2023 The 350 full papers and 29 short papers and 2 PHD showcase papers included in this volume were carefully reviewed and selected from a total of 876 submissions These nine volumes includes the proceedings of the following workshops Advances in Artificial Intelligence Learning Technologies Blended Learning STEM Computational Thinking and Coding AAILT 2023 Advanced Processes of Mathematics and Computing Models in Complex Computational Systems ACMC 2023 Artificial Intelligence supported Medical data examination AIM 2023 Advanced and Innovative web Apps AIWA 2023 Assessing Urban Sustainability ASUS 2023 Advanced Data Science Techniques with applications in Industry and Environmental Sustainability ATELIERS 2023 Advances in Web Based Learning AWBL 2023 Blockchain and Distributed Ledgers Technologies and Applications BDLTA 2023 Bio and Neuro inspired Computing and Applications BIONCA 2023 Choices and Actions for Human Scale Cities Decision Support Systems CAHSC DSS 2023 and Computational and Applied Mathematics CAM 2023 Counseling the Nursing Mother: A Lactation Consultant's Guide

Judith Lauwers, Anna Swisher, 2020-07-01 *Counseling the Nursing Mother A Lactation Consultant s Guide* Seventh Edition presents topics within a counseling framework with practical suggestions and evidence based information interwoven throughout Additionally the Seventh Edition is an ideal study guide for International Board Certified Lactation Consultant IBCLC certification and practice *Medicinal Plants from Sub-Saharan Africa* Namrita Lall, Anna-Mari Kok, 2024-09-01

South Africa boasts high biodiversity among its flora and this is associated with many undiscovered medicinal plants with therapeutic potential To target this untapped resource the first step is to introduce these species to a wider spectrum of audience be they the academics who carry out research students interested in holistic medicine and healing or those working

in the natural product industry In this work we document a list of medicinal plants from Sub Saharan Africa that have been underestimated in their therapeutic value and not thoroughly studied Our book contains the recent scientific studies and validation on the individual plants Written and organised in an easily accessible way each entry includes specific information on the plant s distribution traditional usage and their phytochemical content In summary this book introduces new and exciting plants of Sub Saharan Africa in a comprehensive and well thought out format for academia pharmacists clinicians complementary and alternative medicine practitioners traditional healers industry and the general experienced or novice botanist

Tourism Enterprises and Sustainable Development David Leslie,2010-03-17 The tourism industry has increasingly recognized and responded to growing environmental concerns In recent years there has been an emergence of a variety of categories of tourism considered more environmentally friendly green eco tourism and sustainable tourism Much of the literature that has addressed these developments has been orientated to the destination locale or specific to a development These texts have not sought to investigate and examine the response of government national tourist organizations to the international sustainability agenda and the responses actions of tourism enterprises to this greening agenda This text aims to address this remarkable gap This indispensable contribution to the field provides a comprehensive state of the art perspective on progress towards the objectives of sustainable development within the tourism sector across the globe by focusing on the environmental performance and adoption of environmental management systems by tourism enterprises

Going Beyond Marie-Theres Albert,Francesco Bandarin,Ana Pereira Roders,2017-09-18 This volume looks at sustainable protection and sustainable use of cultural and natural heritage particularly in view of the current challenges of the 21st century For more than 40 years the World Heritage Convention has regulated the protection of the cultural and natural heritage of humankind particularly in that heritage shall be protected if it is threatened by modern development The international community has also adopted sustainability and sustainable development as objectives to facilitate the protection of cultural and natural heritage Sustainable heritage protection and use must therefore be preserved in the face of the global challenges it faces and must be perceived in terms of societal political and corresponding economic paradigms

Effective Teaching Around the World Ridwan Maulana,Michelle Helms-Lorenz,Robert M. Klassen,2023-06-27 This open access book brings together theoretical empirical methodological and practical insights from various countries on effective teaching It particularly focuses on discussing issues pertaining to effective teaching behaviour including definitions and conceptualizations measurement differences and importance to student outcomes from international perspectives The book will draw upon the rich cultures with diverse contexts involving Asia Australia Africa America and Europe which serve as the background setting to better understand teaching quality from a wide spectrum of educational systems and performances It shows that effective teaching behaviour can be conceptualized and operationalized uniformly using specific frameworks and measures but also addresses some limitations that should be tackled The book discusses promising ways to measure and

compare effective teaching behaviour from classical test theory CTT as well as item response theory IRT perspectives It indicates that effective teaching behaviour in diverse countries follows a systematic level of complexity which provides an avenue for ongoing teacher education and teacher professional development It discusses the interrelated domains of effective teaching behaviour including contemporary trends of differentiation The book continues with examining similarities and differences in effective teaching behaviour across countries It builds on the understanding of cultural traditions across countries as profoundly reflected in the classroom processes Resources in Education ,2000

Ethnopharmacology Michael Heinrich,Anna K. Jäger,2015-10-12 Ethnopharmacology is one of the world s fastest growing scientific disciplines encompassing a diverse range of subjects It links natural sciences research on medicinal aromatic and toxic plants with socio cultural studies and has often been associated with the development of new drugs The Editors of Ethnopharmacology have assembled an international team of renowned contributors to provide a critical synthesis of the substantial body of new knowledge and evidence on the subject that has emerged over the past decade Divided into three parts the book begins with an overview of the subject including a brief history ethnopharmacological methods the role of intellectual property protection key analytical approaches the role of ethnopharmacology in primary secondary education and links to biodiversity and ecological research Part two looks at ethnopharmacological contributions to modern therapeutics across a range of conditions including CNS disorders cancer bone and joint health and parasitic diseases The final part is devoted to regional perspectives covering all continents providing a state of the art assessment of the status of ethnopharmacological research globally A comprehensive critical synthesis of the latest developments in ethnopharmacology Includes a section devoted to ethnopharmacological contributions to modern therapeutics across a range of conditions Contributions are from leading international experts in the field This timely book will prove invaluable for researchers and students across a range of subjects including ethnopharmacology ethnobotany medicinal plant research and natural products research

Ethnopharmacology A Reader is part of the ULLA Series in Pharmaceutical Sciences www.ullapharmsci.org *Report of the Annual Meeting of the South African Association for the Advancement of Science* ,2001

Corporate Governance and Economic Development Anna Lanoszka,2022-07-14 This book explores the links between different corporate governance systems and their impact on economic development It focuses on how institutional reforms legislative changes and codified measures have influenced performance at the firm and country level Drawing on detailed cases from the UK USA China India Poland Brazil Russia and South Africa this book takes a truly international and comparative approach to understanding the relationship between regulatory frameworks and economic development This will be a valuable text for students and researchers of economic development corporate governance international political economy and economic and business history

Nutritional Management of Renal Disease Joel D. Kopple,Shaul G Massry,Kamyar Kalantar-Zadeh,Denis Fouque,2021-10-08 Nutritional Management of Renal Disease Fourth Edition offers in depth reviews of the metabolic and

nutritional disorders prevalent in patients with renal disease and serves as an in depth reference source concerning nutrition and kidney disease This classic translational reference provides correct diagnosis and therefore correct treatment of renal metabolic and nutritional disorders Nephrologists diabetologists endocrinologists dieticians and nutritionists depend on a strong understanding of the molecular basis for the disease This fourth edition includes thorough new case reports offering expert advice on how to use the latest research and clinical findings in counseling patients about dietary and lifestyle options Readers gain insight into which treatments medications and diets to use based on the history progression and genetic make up of a patient Includes the latest comprehensive KDOQI clinical practice guidelines for the nutritional management of kidney disease from the National Kidney Foundation and the Academy of Nutrition and Dietetics covering recommendations for each essential nutrient as well as for some nonessential nutrients Presents a comprehensive translational look at all aspects of metabolic and nutritional disorders in one reference Provides a common language for nephrologists nutritionists endocrinologists and other interested physicians to assimilate information and discuss the underlying research and translation of best practices for the nutritional management and prevention of renal disease Saves clinicians and researchers time in quickly accessing the very latest details on nutritional practice as opposed to searching through thousands of journal articles

Dietary Supplements, Botanicals and Herbs at The Interface of Food and Medicine Alessandra Durazzo, Massimo Lucarini, Michael Heinrich, 2022-07-28 Bulletin of the World Health Organization World Health Organization, 2008 *Commercial Directory*, 1999 South African national bibliography, 1999 Classified list with author and title index **African Books in Print**, 1978 **XIIth International Conference on AIDS and STDs in Africa, 9-13 December 2001, Ouagadougou, Burkina Faso**, 2001 **Consultants & Consulting Organizations Directory: Descriptive listings and indexes**, 2009 *Drum*, 2009

Ana 2assessment Guidelines Kzn Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ana 2assessment Guidelines Kzn**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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CAN Distinguish between fission ... Matter and Change • Chapter 25 When a radioactive nucleus gives off a gamma ray, its atomic number increases by. 12. The three types of radiation were first identified by Ernest Rutherford. Nuclear Chemistry - Lake Central High School Jul 12, 2015 — What is the change in atomic number after the alpha decay?It decreases by 2.b. ... answer the following questions.Nuclear ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a pro- ton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208 $^{208}_{87}\text{Fr} \rightarrow$ b ...