



# basic education

Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

## NATIONAL SENIOR CERTIFICATE

GRADE 10

PHYSICAL SCIENCES: PHYSICS (P1)

EXEMPLAR 2012

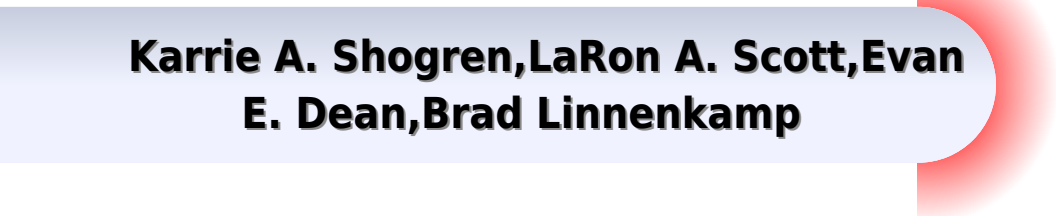
MARKS: 150

TIME: 2 hours

This question paper consists of 15 pages, 1 data sheet, an answer sheet  
and graph paper.

# Physical Science Exemplar For 2012

**Karrie A. Shogren, LaRon A. Scott, Evan  
E. Dean, Brad Linnenkamp**



## **Physical Science Exemplar For 2012:**

*Hume's Natural Philosophy and Philosophy of Physical Science* Matias Slavov, 2020-10-15 This book contextualizes David Hume's philosophy of physical science exploring both Hume's background in the history of early modern natural philosophy and its subsequent impact on the scientific tradition Drawing on Cartesian cosmology and Einstein's special relativity and taking in topics including experimentalism causation laws of nature metaphysics of forces mathematics relation to nature and the concepts of space and time this book deepens our understanding of Hume's relation to natural philosophy It does so in addition by situating Hume's thought within the context of other major philosophers and scientists including Descartes Locke Boyle Kant Newton and Leibniz Demonstrating above all Hume's understanding of the fluid relationship between philosophy and science Hume's *Natural Philosophy and Philosophy of Physical Science* will provide new insights for historians and philosophers of science

**Handbook of Research-Based Practices for Educating Students with Intellectual Disability** Karrie A. Shogren, LaRon A. Scott, Evan E. Dean, Brad Linnenkamp, 2024-09-10 Now in its second edition this comprehensive handbook emphasizes research based practices for educating students with intellectual disability across the life course from early childhood supports through the transition to adulthood Driven by the collaboration of accomplished nationally recognized professionals of varied approaches lived experience and expertise and philosophies the book is updated with new theory and research based practices that have been shown to be effective through multiple methodologies to help readers select interventions and supports based on the evidence of their effectiveness Considering the field of intellectual disability from a transdisciplinary perspective it integrates a greater focus on advancing equity in educational outcomes for students This book is a professional resource and graduate level text for preservice and in service educators psychologists speech language therapists and other clinicians involved in the education of children youth and adults with intellectual disability

**Capability Surprise for U.S. Naval Forces** Committee on Capability Surprise for U.S. Naval Forces, Naval Studies Board, Division on Engineering and Physical Sciences, National Research Council, 2013-12-31 A letter dated December 21 2011 to National Academy of Sciences President Dr Ralph Cicerone from the Chief of Naval Operations ADM Jonathan W Greenert U S Navy requested that the National Research Council's NRC's Naval Studies Board NSB conduct a study to examine the issues surrounding capability surprise both operationally and technically related facing the U S naval services Accordingly in February 2012 the NRC under the auspices of its NSB established the Committee on Capability Surprise for U S Naval Forces The study's terms of reference provided in Enclosure A of this interim report were formulated by the Office of the Chief of Naval Operations CNO in consultation with the NSB chair and director The terms of reference charge the committee to produce two reports over a 15 month period The present report is the first of these an interim report issued as requested following the third full committee meeting The terms of reference direct that the committee in its two reports do the following 1 Select a few potential capability surprises across the continuum from disruptive technologies to intelligence

inferred capability developments through operational deployments and assess what U S Naval Forces are doing and could do about these surprises while mindful of future budgetary declines 2 Review and assess the adequacy of current U S Naval Forces policies strategies and operational and technical approaches for addressing these and other surprises and 3 Recommend any changes including budgetary and organizational changes as well as identify any barriers and or leadership issues that must be addressed for responding to or anticipating such surprises including developing some of our own surprises to mitigate against unanticipated surprises Capability Surprise for U S Naval Forces Initial Observations and Insights Interim Report highlights issues brought to the committee s attention during its first three meetings and provides initial observations and insights in response to each of the three tasks above It is very much an interim report that neither addresses in its entirety any one element of the terms of reference nor reaches final conclusions on any aspect of capability surprise for naval forces The committee will continue its study during the coming months and expects to complete by early summer 2013 its final report which will address all of the elements in the study s terms of reference and explore many potential issues of capability surprise for U S naval forces not covered in this interim report

Logical Empiricism and the Physical Sciences Sebastian Lutz,Adam Tamas Tuboly,2021-04-26 This volume has two primary aims to trace the traditions and changes in methods concepts and ideas that brought forth the logical empiricists philosophy of physics and to present and analyze the logical empiricists various and occasionally contrary ideas about the physical sciences and their philosophical relevance These original chapters discuss these developments in their original contexts and social and institutional environments thus showing the various fruitful conceptions and philosophies behind the history of 20th century philosophy of science Logical Empiricism and the Natural Sciences is divided into three thematic sections Part I surveys the influences on logical empiricism s philosophy of science and physics It features chapters on Maxwell s role in the worldview of logical empiricism on Reichenbach s account of objectivity on the impact of Poincaré on Neurath s early views on scientific method Frank s exchanges with Einstein about philosophy of physics and on the forgotten role of Kurt Grelling Part II focuses on specific physical theories including Carnap s and Reichenbach s positions on Einstein s theory of general relativity Reichenbach s critique of unified field theory and the logical empiricists reactions to quantum mechanics The third and final group of chapters widens the scope to philosophy of science and physics in general It includes contributions on von Mises frequentism Frank s account of concept formation and confirmation and the interrelations between Nagel s Feigl s and Hempel s versions of logical empiricism This book offers a comprehensive account of the logical empiricists philosophy of physics It is a valuable resource for researchers interested in the history and philosophy of science philosophy of physics and the history of analytic philosophy

*Inclusive Texts in Elementary Classrooms* Amy J. Heineke,Aimee Papola-Ellis,2022 Learn how to put children s diverse and storied experiences at the center of the curriculum Schools are more diverse than ever before but the texts and materials that typify classroom curricula continue to prioritize so called mainstream stories and

perspectives These canonical texts often exclude the nuanced identities and rich lived experiences of the very children sitting in today s classrooms But kids thrive when they see themselves in texts and learn about the world around them by connecting with the experiences of others Based on the authors work with elementary school teachers over the last decade this resource offers strategies for moving away from canonical texts The authors present a four part framework for selecting using and engaging students with texts that promote children s identity development literacy engagement and comprehension and learning across the content areas The practical text provides guidance for setting learning goals that align with relevant standards and curricular directives as well as classrooms examples teaching strategies and reflective questions Book Features An actionable way for teachers to move from theory to practice using what we know about culturally relevant practice and critical literacy to create instruction that enhances children s classroom experiences and learning An inclusive and intersectional approach that supports all teachers in enhancing their classroom libraries and curricular resources for the benefit of all students Specific ideas for texts and authors as well as more generalizable themes and ideas that will guide future exploration and use of texts in classrooms Tangible strategies and rich classrooms examples from 20 expert teachers spanning diverse elementary school settings Reflective questions to help practitioners personalize the content to their own contexts *Commerce, Justice, Science, and Related Agencies Appropriations for 2014* United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2013

**Pectin:**  
**Technological and Physiological Properties** Vassilis Kontogiorgos,2020-10-01 This text presents the technological and physiological properties of pectin in an educational approach that encompasses all of the essential information a researcher needs to fully understand their function and use in foods Utilizing basic information on pectin as well as recent technological advances this book is designed to be the primary resource for individuals seeking out an up to date reference work covering all the necessary informational and functional aspects of pectin Pectin technological and physiological properties is the first book to fully focus on the introductory concepts on pectin Individual chapters cover localization and function the structural aspects of pectin pectinases isolation and characterization and recovery from agricultural wastes Important current advances such as emulsions films digestion metabolism and bioactive properties are also focused on With its combination of vital basic information and technological advances this book presents full and up to date coverage on this pectin and its many forms and uses in foods

**Positive Psychological Interventions Beyond Weird Contexts: How, When, and Why They Work** Llewellyn Ellardus Van Zyl,Marijke Schotanus-Dijkstra,Susana Llorens,Jeff Klibert,Machteld Van Den Heuvel,Claude-Hélène Mayer,Wenjie Duan,Dan Tomasulo,2022-11-14

**Stepping Away from the Silos** Margaret Coutts,2016-11-10 For over twenty years digitisation has been a core element of the modern information landscape The digital lifecycle is now well defined and standards and good practice have been developed for most of its key stages There remains however a widespread lack of coordination of digitisation initiatives both within and across different sectors and there are disparate

approaches to selection criteria The result is silos of digitised content Stepping away from the Silos examines the strategic context in the UK since the 1990s and its effect on collaboration and coordination of exemplar digitisation initiatives in higher education and related sectors It identifies the principal criteria for content selection that are common to the international literature in this field The outputs of the exemplar projects are examined in relation to these criteria A range of common practices and patterns in content selection appears to have developed over time forming a de facto strategy from which several areas of critical mass have emerged The book discusses the potential to improve strategic collaboration and coordinated selection by building on such a platform and considers planning options in the context of work on national digitisation strategies in the UK and internationally Summarises the rise of publicly funded digitisation in the UK from the 1990s to date and identifies the need to improve coordination and content selection criteria Reviews the role of digitisation in government and organisational strategies from the 1990s to the present day Examines the strategic position of collaboration within and across different organisations Identifies common selection criteria and outlines the coverage of exemplar projects Discusses the apparent emergence of a de facto selection strategy and the potential for national strategic planning of digitised content based on existing outputs and improved collaboration      **DHM and Posturography** Sofia

Scataglini, Gunther Paul, 2019-08-22 DHM and Posturography explores the body of knowledge and state of the art in digital human modeling along with its application in ergonomics and posturography The book provides an industry first introductory and practitioner focused overview of human simulation tools with detailed chapters describing elements of posture postural interactions and fields of application Thus DHM tools and a specific scientific practical problem the study of posture are linked in a coherent framework In addition sections show how DHM interfaces with the most common physical devices for posture analysis Case studies provide the applied knowledge necessary for practitioners to make informed decisions Digital Human Modelling is the science of representing humans with their physical properties characteristics and behaviors in computerized virtual models These models can be used standalone or integrated with other computerized object design systems to design or study designs workplaces or products in their relationship with humans Presents an introductory up to date overview and introduction to all industrially relevant DHM systems that will enable users on trialing procurement decisions and initial applications Includes user level examples and case studies of DHM application in various industrial fields Provides a structured and posturography focused compendium that is easy to access read and understand      **Handbook of**

**Research on Teaching** Drew Gitomer, Courtney Bell, 2016-05-19 The Fifth Edition of the Handbook of Research on Teaching is an essential resource for students and scholars dedicated to the study of teaching and learning This volume offers a vast array of topics ranging from the history of teaching to technological and literacy issues In each authoritative chapter the authors summarize the state of the field while providing conceptual overviews of critical topics related to research on teaching Each of the volume's 23 chapters is a canonical piece that will serve as a reference tool for the field The Handbook

provides readers with an unparalleled view of the current state of research on teaching across its multiple facets and related fields

Big Data in Education: Pedagogy and Research Theodosia Prodromou, 2021-10-04 This book discusses how Big Data could be implemented in educational settings and research using empirical data and suggesting both best practices and areas in which to invest future research and development It also explores 1 the use of learning analytics to improve learning and teaching 2 the opportunities and challenges of learning analytics in education As Big Data becomes a common part of the fabric of our world education and research are challenged to use this data to improve educational and research systems and also are tasked with teaching coming generations to deal with Big Data both effectively and ethically The Big Data era is changing the data landscape for statistical analysis the ways in which data is captured and presented and the necessary level of statistical literacy to analyse and interpret data for future decision making The advent of Big Data accentuates the need to enable citizens to develop statistical skills thinking and reasoning needed for representing integrating and exploring complex information This book offers guidance to researchers who are seeking suitable topics to explore It presents research into the skills needed by data practitioners data analysts data managers statisticians and data consumers academics and provides insights into the statistical skills thinking and reasoning needed by educators and researchers in the future to work with Big Data This book serves as a concise reference for policymakers who must make critical decisions regarding funding and applications

*Science Education in Canada* Christine D. Tippett, 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

Objective Question Bank GENERAL SCIENCE Arihant Experts, 2014-12-01 The General Science section covering Physics Chemistry Biology and Computer Science has taken an important dimension in most of the competitive examinations like SSC CDS NDA Assistant Commandant CPO UPSC and State Level PSC Exams and those lacking the basic General Science knowledge lag behind others in the long run The present book will act as an Objective Question Bank for General Science The book has been prepared keeping in mind the importance of the subject This book has been divided into four sections

namely Physics Chemistry Biology and Computer Science each divided into number of chapters as per the syllabi of General Science section asked in various competitive exams The Physics section covers Motion Force Laws of Motion Gravitation Work Energy Power Simple Harmonic Motion Wave Motion Light Ray Optics Current Electricity Its Effects Nuclear Physics Semiconductor Communication etc whereas the Chemistry section has been divided into Atomic Structure Chemical Reactions Chemical Bonding Solutions Colloids Energetics Kinetics Electrochemistry Metallurgy Metals Their Compounds Flame Fuel Food Chemistry etc The Biology section in the book covers Biology Its Branches Cell Structure Functions Cell Cycle Cell Division Plant Tissues Animal Nutrition Plant System Reproduction in Organisms Respiratory System Excretory System Reproductive System Genetics Biotechnology Animal Husbandry etc whereas the Computer Awareness section has been divided into Computer Organisation Memory Data Representation Software Data Communication Networking and Internet Computer Security The chapters in the book contain more than 100 tables which will help in better summarization of the important information Each chapter in the book contains ample number of objective questions ample number of objective questions including questions asked in previous years exams which have been designed on the lines of questions asked in various competitive examinations With a collection of more than 5000 highly useful questions the content covered in the book tries to simplify the complexities of some of the topics so that non science students feel no difficulty while studying general science Also hints and solutions to the difficult questions have been provided in the book As the book thoroughly covers the General Science section asked in a number of competitive examinations it for sure will work as a preparation booster for various competitive examinations like UPSC State Level PSCs Examinations SSC CDS NDA CISF and other general competitive recruitment examinations

*Enchanted by Eternity* William J. Slattery, 2025-01-20 Whether we realize it or not Catholics have been deeply influenced by modernity's failed worldview While we want to live and share our faith with joy we struggle to do so because we unwittingly see the cosmos the human person and society as machines functioning independently of their Creator and of one another If we want to bring the life transforming effects of our faith into the world we must first find and live real Catholicism breaking free of the gravitational pull of modernity's worldview A worldview is the stable all encompassing way in which each of us looks at reality the pair of glasses through which we see the world around us It makes up the grid of givens assumptions and presuppositions through which we view the world It colors what we mean by God universe and human Everyone has a worldview and recognizing our worldview and the worldviews of others is crucial in our search for truth goodness and beauty In *Enchanted by Eternity* Fr William Slattery shows how Catholicism proposes an enchanted and enchanting view of self nature society and the future of each human person created to live in a resurrected body in the new heavens and the new earth As this book reveals rediscovering a truly Catholic worldview will change the way we live and it might even change the world

*A Research Agenda for Cities* John Rennie Short, 2017-03-31 Elgar Research Agendas outline the future of research in a given area Leading scholars are given the space to explore their

subject in provocative ways and map out the potential directions of travel They are relevant but also visionary This book provides a critical assessment of key areas of urban scholarship In twelve stimulating chapters expert contributors examine a range of important pressing topics from sustainability and gentrification to feminist interventions and globalization to security and food issues Six more regionally informed expert reviews examine recent urban research in sub Saharan Africa South America East Asia the Middle East Australia and Eastern Europe The chapters provide polemical assessments and signposts for future research The book will be an indispensable and accessible guide to urban research across the globe

*The Psychology of Closed Self-Paced Motor Tasks in Sports* Ronnie Lidor, Gal Ziv, 2022-06-01 In practice settings competitions and games athletes are often required to perform an arsenal of motor tasks in dynamic and challenged sporting environments where they have to respond without having enough time to prepare themselves for the act However in many sport activities athletes also perform closed self paced motor tasks tasks that take place in a relatively stable and predictable environment where there is adequate time to prepare for their execution Among these tasks are free throw shots in basketball putting in golf serving in tennis and bowling In these tasks performers are able to plan their actions in advance They can activate a plan a strategy a protocol or a procedure what we term a ritual behavior Effective rituals are usually achieved with a high degree of consistency That is either deliberately or subconsciously they become an integral part of the act itself The Psychology of Closed Self Paced Motor Tasks in Sports explores those plans procedures protocols strategies and techniques that aim at facilitating the performance and learning of closed self paced motor tasks Included in the instructional psychological routines discussed in this book are pre performance routines focusing attention motor imagery enhanced expectancies autonomy support gaze strategies self talk and periodization The routines discussed in the book are evidence based Based on updated reviews of laboratory and field inquiries on the discussed instructional psychological routines practical implications are given for those professionals who teach closed self paced motor tasks including coaches instructors and sport psychology consultants

*Courtroom Testimony for Fingerprint Examiners* Hillary Moses Daluz, 2021-08-30 Fingerprint examiners today are expected to develop research and defend the scientific basis of their conclusions Recent emphasis placed on scientific rigor and transparency through documentation has created a culture shift in the field Many examiners are baffled by the resulting cultural procedural and scientific distinctions often becoming overwhelmed when required to testify as an expert witness to explain such concepts in the courtroom Courtroom Testimony for Fingerprint Examiners addresses all aspects of courtroom testimony as the first book to focus solely on testifying on fingerprint evidence as a comparative science The book is presented in two parts Section I addresses general expert witnessing for forensic scientists This serves as a primer for the novice or a review for experienced witnesses covering such topics as the structure of the criminal justice system and federal rules of evidence the role of the expert witness testimony as teaching presenting challenging scientific concepts to the layperson court preparation the three phases of expert witness

testimony and landmark court decisions that have shaped the modern landscape of forensic testimony Section II focuses on specific issues affecting fingerprint examiners and how to field questions during both direct and cross examination While such hot button topics are absent from currently available texts this section pays particular attention to these salient emerging topics This includes evidentiary challenges to fingerprint evidence relevant publications such as the PCAST report nomenclature and standards development issues surrounding cognitive bias and subjectivity probability models error rates and cases of error and how to address issues of minimum point standards in both the empirical and holistic traditions Both Section I and Section II provide examples and present innovations applicable to latent and tenprint examiners Features include Presents a history of fingerprint evidence and current best practices and limits on characterizing fingerprint evidence in court including appropriate nomenclature Provides current guidelines and recommendations for standards and the courtroom Illustrates how experts can work with attorneys so that the testimony process educates and informs jurors and judges rather than perpetuating an adversarial dynamic Addresses important issues such as cognitive bias subjectivity error rates probability models and ethics As a forensic training instructor for professionals and previously as a college professor author Hillary Moses Daluz has spent the past ten years teaching courtroom testimony courses to forensic scientists Courtroom Testimony for Fingerprint Examiners offers an invaluable resource to forensic scientists latent print examiners tenprint examiners lab personnel in related comparative fields attorneys investigative professionals and students enrolled in forensic science university programs

**Institutions and Organizations** Trish Reay, Tammar B. Zilber, Ann

Langley, Haridimos Tsoukas, 2019-07-04 Institutions the structures practices and meanings that define what people and organizations think do and aspire to are created through process They are work in progress that involves continual efforts to maintain modify or disturb them Institutional logics are also in motion holding varying degrees of dominance that change over time This volume brings together two streams of thought within organization theory institutional theory and process perspective to advocate for stronger process ontology that highlights institutions as emergent generative political and social A stronger process view allows us to challenge our understanding of central concepts within institutional theory such as loose coupling institutional work the work of institutional logics on the ground and institutionalization between diffusion and translation Enriched with an emphasis on practice and widened by taking a broad view of institutions this volume draws on the Ninth International Symposium on Process Organization Studies to offer key insights that will inform our thinking of institutions as processes

**Prometheus Assessed?** Shaun Goldfinch, Kiyoshi Yamamoto, 2012-04-11 This book examines

the problems pitfalls and opportunities of different models of assessing research quality drawing on studies from around the world Aimed at academics education officials and public servants key features include an overview of the argument of whether research should be assessed and how research quality should be determined Prometheus Assessed offers a survey of research assessment models in the US UK Japan and New Zealand and includes an examination of citation analysis and

comparison between the different models Should research be assessed and what is research quality Survey of research assessment models in US UK Japan and New Zealand Examination of citation analysis

## The Enigmatic Realm of **Physical Science Exemplar For 2012**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Physical Science Exemplar For 2012** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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