



## GRADE 10 PHYSICAL SCIENCES

### NOVEMBER EXAMINATION PAPER 1: PHYSICS

#### SECTION A

##### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the **LETTER** (A-D) next to the **QUESTION NUMBER** in your answer book.

1.1 Which of the following is an example of a vector?

- A. time
- B. speed
- C. pressure
- D. mass

1.2 What can be determined by calculating the gradient of a position vs time graph?

- A. acceleration
- B. displacement
- C. velocity
- D. none of the above

Use the circuit diagram below to answer QUESTIONS 1.3 and 1.4



1.3 The voltage over the parallel resistors will be:

- A. 8V
- B. 7V
- C. 2V
- D. 3V

1.4 The current in ONE parallel branch if the resistor offered a resistance of 0.5Ω:

- A. 1A
- B. 4A
- C. 1.5A
- D. 3A

1.5 The equivalent unit for work is:

- A. joule per coulomb
- B. joule per second
- C. joule per ampere
- D. coulomb per second

1.6 Two waves moving in opposite directions collide with constructive interference. Wave A has an amplitude of 2 units and Wave B has an amplitude of 0.5 units. The combined wave has an amplitude of:

- A. 1.5 units
- B. 2 units
- C. 2.5 units
- D. 0.5 units

1.7 A ball with a mass of 2kg is released from a height of 20m and takes 1.2s to reach the ground. If the mass of the ball is increased to 4kg the time it takes to reach the ground will:

- A. increase
- B. decrease
- C. remain the same

1.8 A glass rod and a cloth are rubbed against each other. The glass rod becomes positively charged. Which statement best describes the reason for this?

- A. The glass rod gained protons from the cloth.
- B. The cloth gained electrons from the glass rod.
- C. The glass rod lost protons to the cloth.
- D. The cloth lost electrons to the glass rod.

# Physical Science Grade November 2014 Paper 02

**RJ Alexander**



## **Physical Science Grade November 2014 Paper 02:**

**The State of the Art in Student Engagement** Carl Senior, 2015-07-10 There is an extensive literature conducted from a range of theoretical perspectives and methodologies on the role of groups and student learning in higher education. However, here the concept of the group is heavily contested at a theoretical level but within higher education practice characterizing the group has tended to be clear cut. Groups of students are often formed within the parameters of specific educational programs to address explicitly defined learning objectives. These groups are often small scale and achieve tasks through cooperative or collaborative learning. Cooperative learning involves students dividing roles and responsibilities between group members so learning becomes an independent process and outcome. On the other hand collaborative learning involves students working together by developing shared meanings and knowledge to solve a task or problem. From this perspective learning is conceptualized as both a social process and individual outcome. That is collaborative learning may facilitate individual student conceptual understanding and hence lead to higher academic achievement. The empirical evidence is encouraging as has been shown that students working collaboratively tend to achieve higher grades than students working independently. However the above perspectives on student engagement assume that groups are formed within the confines of formal learning environments e.g. lecture theaters. Groups that involve students on the same degree program have the explicit function of achieving a learning task and disband once this has been achieved. However students may also use existing social networks such as friendship groups as a mechanism for learning which may occur outside of formal learning environments. There is an extensive literature on the role and benefits of friendship groups on student learning within primary and secondary education but there is a distinct lack of research within higher education. This ebook is innovative and ambitious and will highlight and consolidate the current understanding of the role that student based engagement behaviors may serve in effective pedagogy. A unique aspect of this research topic will be the fact that scholars will also be welcome to submit articles that describe the efficacy of the full range of approaches that have been employed to facilitate student engagement across the sector.

**Nanosensors** Vinod Kumar Khanna, 2021-02-25 Nanosensors are innovative devices that exploit the unique properties exhibited by matter at the nanoscale. A growing and exciting field, nanosensors have recently spurred considerable research endeavors across the globe, driving a need for the development of new device concepts and engineering nanostructured materials with controlled properties. *Nanosensors: Physical, Chemical, and Biological*, Second Edition, offers a panoramic view of the field and related nanotechnologies with extraordinary clarity and depth. Presenting an interdisciplinary approach blending physics, chemistry, and biology, this new edition is broad in scope and organized into six parts, beginning with the fundamentals before moving onto nanomaterials and nanofabrication technologies in the second part. The third and fourth parts provide a critical appraisal of physical nanosensors and explore the chemical and biological categories of nanosensors. The fifth part sheds light on the emerging applications of nanosensors in the sectors of society.

industry and defense and details the cutting edge applications of state of the art nanosensors in environmental science food technology medical diagnostics and biotechnology The final part addresses self powering and networking issues of nanosensors and provides glimpses of future trends This is an ideal reference for researchers and industry professionals engaged in the frontier areas of material science and semiconductor fabrication as well as graduate students in physics and engineering pursuing electrical engineering and electronics courses with a focus on nanoscience and nanotechnology Key features Provides an updated all encompassing exploration of contemporary nanosensors and highlights the exclusive nanoscale properties on which nanosensors are designed Presents an accessible approach with a question and answer format to allow an easy grasp of the intricacies involved in the complex working mechanisms of devices Contains clear illustrative diagrams enabling the visualization of nanosensor operations along with worked examples end of chapter questions and exhaustive up to date bibliographies appended to each chapter

*7 YEAR-WISE Solved Papers - Intelligence Bureau Assistant Central Intelligence Officer Grade-II/ Executive (Tier-I) Exam 2nd Edition* Disha Experts,2022-05-11 7 YEAR WISE Intelligence Bureau Assistant Central Intelligence Officer Grade II Executive Tier I Exam contains Past 7 Solved Papers of the IB exam The past Solved papers included are 2010 2011 2012 2013 2015 2017 2021 The detailed solutions are provided immediately after each paper

**The End of Public Schools** David W. Hursh,2015-10-16 The End of Public Schools analyzes the effect of foundations corporations and non governmental organizations on the rise of neoliberal principles in public education By first contextualizing the privatization of education within the context of a larger educational crisis and with particular emphasis on the Gates Foundation and influential state and national politicians it describes how specific policies that limit public control are advanced across all levels Informed by a thorough understanding of issues such as standardized testing teacher tenure and charter schools David Hursh provides a political and pedagogical critique of the current school reform movement as well details about the increasing resistance efforts on the part of parents teachers and the general public

Advances in Energy Science and Equipment Engineering II Volume 2 Shiquan Zhou,Aragona Patty,Shiming Chen,2017-09-19 The 2016 2nd International Conference on Energy Equipment Science and Engineering ICEESE 2016 was held on November 12 14 2016 in Guangzhou China ICEESE 2016 brought together innovative academics and industrial experts in the field of energy equipment science and engineering to a common forum The primary goal of the conference is to promote research and developmental activities in energy equipment science and engineering and another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working all around the world The conference will be held every year to make it an ideal platform for people to share views and experiences in energy equipment science and engineering and related areas This second volume of the two volume set of proceedings covers the field of Structural and Materials Sciences and Computer Simulation Computer and Electrical Engineering

*Polar Shift: The Arctic Sustained* Joseph F. C. DiMento,2022-05-10 Polar Shift addresses how to sustain the

Arctic's richness, beauty, and local and global value. It describes programs specifically created to protect this region, the great inventory of law, policy, and civil society activity targeting sustainability of the region. It presents the Arctic and its present environmental health very broadly understood and competing ideas of how it can be maintained or improved with specific recommendations. This is a book about the Arctic's past and how it was envisioned about its environment, its people, and their cultures. *Polar Shift* describes how the changing of the Arctic matters and to whom. It discusses what is being done to address threats to the Arctic's environment and describes an inventory of tools available to sustain the Arctic and its people.

*Discover Sociology* William J. Chambliss, Daina S. Eglitis, 2016-12-02. *Discover Sociology* explores sociology as a discipline of curious minds with the theoretical, conceptual, and empirical tools needed to understand, analyze, and even change the world. Organized around the four main themes of The Sociological Imagination, Power and Inequality, Technological Transformations of Society, and Globalization, every chapter in the book illuminates the social roots of diverse phenomena and institutions.

*Specifications Grading 2.0* Linda B. Nilson, Joseph A. Packowski, 2025-09-15. This second edition of the alternative grading classic revisits specs grading with a robust body of research exemplars and strategies to elevate the quality of student work, increase engagement, and buy in, reduce faculty stress, and cultivate students' career competencies. Nilson and Packowski present the unique characteristics of the specs grading schema, all of which simplify faculty decision making, reduce antagonism between the evaluator and the evaluated, and increase student receptivity to meaningful feedback, thus facilitating a mutually beneficial, rigorous learning process. Used consistently over time, specs grading can restore credibility to grades by demonstrating and making transparent to all stakeholders the learning outcomes that students achieve. This book features five new chapters stemming from firsthand accounts of dozens of instructors actively using specs grading and new material in six of the remaining eight chapters. It lays out the surprisingly simple transition process, positioning specs grading as the most viable and easy-to-use system available to faculty.

Scientific and Technical Aerospace Reports, 1972. Lists citations with abstracts for aerospace-related reports obtained from world-wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

**Recent Trends in Computational Fluid Dynamics, 2nd Edition** Muhammad Mubashir Bhatti, Marin I. Marin, Ahmed Zeeshan, Sara I. Abdelsalam, 2021-07-01. Publisher's note: This is a 2nd edition due to an article retraction.

*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

**South African national bibliography** ,1999 Classified list with author and title index

**Growth, Maturation, Physical Activity, and Sport** Robert M. Malina,2025-04-07 Growth Maturation Physical Activity and Sport Third Edition is uniquely focused on the biological growth and maturation of children and adolescents in relation to physical performance both physical activity and sport Written by a true legend in the field Robert M Malina this latest edition features new content exploring the characteristics of youth sport participants associated benefits and risks and efforts aimed at talent development This essential resource guides readers through the complexities of human growth and maturation with the latest research findings and over 350 charts and illustrations that visually support the material The content has been expanded and modified to incorporate recent advances in technology and science such as progress in the study of the human genome deeper

understanding of hormone regulation during growth and advancements in body composition assessment Growth Maturation Physical Activity and Sport Third Edition uses a five part structure enabling readers to gain a basic understanding of growth and maturation and then build upon that foundation The first two parts focus on age and sex associated variations in body composition and explore the concept of biological maturation Part III discusses primary factors that interact to regulate the process of growth and maturation hormones genes nutrients and energy and social factors Part IV considers motor development and performance from infancy through adolescence Part V has been added to provide an overview of youth sports participation statistics and motivation for participation as well as a review of the growth and maturity characteristics of male and female participants in a variety of team and individual sports Growth Maturation Physical Activity and Sport Third Edition is the only text to focus on the biological growth and maturation process of children and adolescents as it relates to physical activity and performance Readers will complete the text with an appreciation for the field and its influence in physical education kinesiology and the sport sciences

Advances in Energy Science and Equipment Engineering II Volume 1 Shiquan Zhou, Aragona Patty, Shiming Chen, 2017-09-19 The 2016 2nd International Conference on Energy Equipment Science and Engineering ICEESE 2016 will be held on November 12 14 2016 in Guangzhou China ICEESE 2016 is to bring together innovative academics and industrial experts in the field of energy equipment science and engineering to a common forum The primary goal of the conference is to promote research and developmental activities in energy equipment science and engineering and another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working all around the world The conference will be held every year to make it an ideal platform for people to share views and experiences in energy equipment science and engineering and related areas

Outdoor Learning in Higher Education Wendy Garnham, Paolo Oprandi, 2024-08-15 Outdoor Learning in Higher Education is essential reading for educational developers and academic teachers of all disciplines interested in the theory behind and benefits of learning outdoors Filled with practical case studies and backed by recent research it provides educators with the tools needed to create an effective yet inclusive learning experience for their students beyond the lecture hall or seminar room In chapters which offer analysis discussion of current debates and advice for good practice the book is structured around five key themes Theoretical perspectives and research supporting outdoor learning Health and wellbeing benefits for learners and educators Tools and techniques for teaching outdoors including new technology Examples of effective fieldwork Crossing educational borders and implementing sustainability and the natural world into the curriculum This key book covers issues which are relevant across all disciplines in higher education including experiential learning sustainability diversity and inclusion and incorporating new technology Outdoor Learning in Higher Education develops perspectives on these and other themes while encouraging the creation of inspiring and effective learning environments

*Resources in Education* ,1994-11

**Comprehensive Systems Biomedicine** Pietro Lio, Enrico Capobianco, 2014-12-03

Systems Biomedicine is a field in perpetual development. By definition a translational discipline it emphasizes the role of quantitative systems approaches in biomedicine and aims to offer solutions to many emerging problems characterized by levels and types of complexity and uncertainty unmet before. Many factors including technological and societal ones need to be considered. In particular new technologies are providing researchers with the data deluge whose management and exploitation requires a reinvention of cross disciplinary team efforts. The advent of omics and high content imaging are examples of advances de facto establishing the necessity of systems approaches. Hypothesis driven models and in silico validation tools in support to all the varieties of experimental applications call for a profound revision. The focus on phases like mining and assimilating the data has substantially increased so to allow for interpretable knowledge to be inferred. Notably to be able to tackle the newly generated data dimensionality heterogeneity and complexity model free and data driven intensive applications are increasingly shaping the computational pipelines and architectures that quant specialists set aside of the high throughput genomics transcriptomics proteomics platforms. As for the societal aspects in many advanced societies health care needs now more than in the past to address the problem of managing ageing populations and their complex morbidity patterns. In parallel there is a growing research interest on the impact that cross disciplinary clinical epidemiological and quantitative modelling studies can have in relation to outcomes potentially affecting the quality of life of many people. Complex systems including those characterizing biomedicine are assessed in both their functionality and stability and also relatively to the capacity of generating information from diversity variation and complexity. Due to the combined interactions and effects such systems embed prediction power available for instance in both target identification or marker discovery or more generally for conducting inference about patients pathological states i.e. normal versus disease diagnostic or prognostic analysis and preventive assessment e.g. risk evaluation. The ultimate goal personalized medicine will be achieved based on the confluence of the system's predictive power to patient specific profiling.

### **Teaching**

**Mathematics Creatively** Linda Pound, Trisha Lee, 2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom. Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject. In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children. The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way. Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers.



who wish to embed creative approaches to maths teaching in their classroom      Handbook of Research on Creating Motivational Online Environments for Students Bilodeau, Julie A., Hughes, Larry W., 2023-08-18 There are many ways to motivate students to achieve their academic and personal goals Due to the pandemic more emphasis has been placed on finding alternative approaches to instruct students Online learning has become the focal point of the educational setting and new approaches to teaching are necessary Since the change in delivery from face to face to online teachers have been faced with motivating their students in an environment that is new and foreign to them Teachers must find new methods to enhance their curriculum to motivate all students in this modality The Handbook of Research on Creating Motivational Online Environments for Students considers how online students learn and how they progress through the learning process The book also provides teaching techniques and technology that will improve motivational success for students in all modalities Covering topics such as student behavior online education and motivational techniques this premier reference source is ideal for administrators researchers academicians scholars practitioners instructors and students      *Rocket Propulsion Elements* George P. Sutton, Oscar Biblarz, 2016-12-27 ROCKET PROPULSION ELEMENTS THE DEFINITIVE INTRODUCTION TO ROCKET PROPULSION THEORY AND APPLICATIONS The recent upsurge in global government and private spending and in space flight events has resulted in many novel applications of rocket propulsion technology Rocket Propulsion Elements remains the definitive guide to the field providing a comprehensive introduction to essential concepts and applications Led by industry veteran George P Sutton and by Professor Oscar Biblarz this book provides interdisciplinary coverage including thermodynamics aerodynamics flight performance propellant chemistry and more This thoroughly revised ninth edition includes discussion and analysis of recent advances in the field representing an authoritative reference for students and working engineers alike In any engineering field theory is only as useful as it is practical this book emphasizes relevant real world applications of fundamental concepts to link thinking and doing This book will help readers Understand the physics of flight and the chemistry of propulsion Analyze liquid solid gas and hybrid propellants and the engines they fuel Consider high temperature combustion stability and the principles of electric and chemical propulsion Dissect the workings of systems in common use around the world today Delve into the latest advances in materials systems propellants and more Broad in scope rich in detail and clear in explanation this seminal work provides an unparalleled foundation in aerospace engineering topics Learning through the lens of modern applications untangles complex topics and helps students fully grasp the intricacies on a more intuitive level Rocket Propulsion Elements Ninth Edition merges information and utility building a solid foundation for innovation

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