



## GRADE 10 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and enter ONLY the LETTER (A-D) next to the QUESTION NUMBER (q1.1-q1.5) on your Rollo paper. Example: 1.6. D

- 1.1 A positively charged object has:
  - A. an attraction to other objects
  - B. an attraction to other positive charges
  - C. an attraction to other negative charges
  - D. an attraction to other metals
- 1.2 Which one of the following types of electromagnetic waves has the LONGEST wavelength?
  - A. Ultraviolet
  - B. Gamma
  - C. Microwave
  - D. X-ray
- 1.3 In which ONE of the following do sound waves travel the FASTEST?
  - A. Vacuum
  - B. Air
  - C. Oil
  - D. Water
- 1.4 The SI unit for charge is the ...
  - A. Coulomb
  - B. Volt
  - C. Ampere
  - D. Joule
- 1.5 The relationship between voltage and work done is:
  - A. Inverse
  - B. Inversely proportional
  - C. Directly proportional
  - D. Inversely proportional squared

[10]

### QUESTION 2

Below is a representation of two waves consisting of continuous pulses. Study carefully and answer the questions that follow.



- 2.1 Define a pulse. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE**. (2)
- 2.3 Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4 For wave Q:
  - 2.4.1 What is the magnitude of its wavelength in metres? (1)
  - 2.4.2 What is the frequency of the pulse? (1)
  - 2.4.3 Calculate the wave speed. (2)
- 2.5 If the waves were sent towards each other and allowed to collide:
  - 2.5.1 What happens to wave P's amplitude? (2)
  - 2.5.2 What happens to wave Q's amplitude? (2)

[14]

### QUESTION 3

- 3.1 The diagram below shows different parts on a longitudinal wave.



- 3.1.1 What is the name of the part labeled C? (1)

(1)

# Grade 1physical Science March Exam Papers 2014

**Gokturk-Saglam, Asli Lidice,Sevgi-  
Sole, Ece**



## **Grade 1physical Science March Exam Papers 2014:**

**POGIL** Shawn R. Simonson,2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

**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

**Emerging Practices for Online Language Assessment, Exams, Evaluation, and Feedback** Gokturk-Saglam, Asli Lidice,Sevgi-Sole, Ece,2023-06-29 The advancement of digital tools has enabled the development of online language assessments exams evaluations and feedback Nonetheless the language assessment literacy required of a teacher today is of a completely different kind one that is adapted to the digital environment and altered for the pedagogical approaches of our new norm There is a scarcity of literature addressing the challenges of in person to online assessments exams evaluations and feedback particularly in the time of the COVID 19 education crisis Emerging Practices for Online Language Assessment Exams Evaluation and Feedback investigates the main challenges of online language assessment when migrating from an in class to an online environment

due to academic integrity adaptation to the new testing environment technical problems and anxiety Covering key topics such as parental involvement self assessment and language learners this premier reference source is ideal for administrators policymakers industry professionals researchers academicians scholars practitioners instructors and students

**Landfalling tropical cyclones: physical processes, forecasting and impacts** Yihong Duan, Qingqing Li, Guanghua Chen, Hui Yu, Da-Lin Zhang, Kun Zhao, 2022-12-29 Proceedings of the 4th International Conference on Innovation in Education, Science and Culture, ICIESC 2022, 11 October 2022, Medan, Indonesia Baharuddin, Hesti Fibriasari, Juniastel Rajagukguk, 2022-12-22 We are delighted to present the Proceedings of the 4th International Conference on Innovation in Education Science and Culture ICIESC that organized by Research and Community Service Centre of Universitas Negeri Medan LPPM UNIMED Proceedings of the 4th ICIESC contains several papers that have presented at the seminar with theme Education and Science in time of uncertainty Recovering for the Future This conference was held on 11 October 2022 virtually and become a routine agenda annually The 4th ICIESC was realized this year with various presenters lecturers researchers and students from universities both in and out of Indonesia The 4th International Conference on Innovation in Education Science and Culture ICIESC 2022 shows up as a Mathematics and Natural Science Material Science Physics Education Biology Education Chemistry Education Vocational Education Applied Sciences Computers Multimedia Technology Applied Mathematics E learning system Applied Sciences Information Technology Applied Sciences Engineering Social Science and Humanities Management Innovation and Heritage Culture research platform to gather presentations and discussions of recent achievements by leading researchers in academic research With the number participants 260 participants who came from the various national and international universities member research institute and academician There are 181 papers passed through rigorous reviews process and accepted by the committee All of papers reflect the conference scopes and become the latest trend It has been our privilege to convene this conference Our sincere thanks to the conference organizing committee to the Program Chairs for their wise advice and brilliant suggestion on organizing the technical program and to the Program Committee for their through and timely reviewing of the papers Recognition should go to the Local Organizing Committee members who have all worked extremely hard for the details of important aspects of the conference programs and social activities We welcome you to read this proceeding and hope the reader can find according to your interests and scientific field *Sport Development in the United States* Peter Smolianov, Dwight Zakus, Joseph Gallo, 2014-09-15 The development of both elite high performance sport and mass participation grassroots level sport are central concerns for governments and sports governing bodies This important new study is the first to closely examine the challenges and opportunities for sports development in the United States a global sporting giant with a unique market driven sporting landscape Presenting an innovative model of integrated sports development the book explores the inter relationship between elite and mass sport across history drawing on comparative international examples from Australia to the former

USSR and Eastern bloc countries At the heart of the book is an in depth empirical study of three traditional and emerging sports in the US tennis soccer and rugby that offer important lessons on the development of elite sport methods for increasing participation and the establishment of new sports in new markets No other book has attempted to model sports development in the United States in such depth before Therefore this should be essential reading for all students researchers administrators or policy makers with an interest in sports development sports management sports policy or comparative international sport studies

*Women's Under-Representation in the Engineering and Computing Professions: Fresh Perspectives on a Complex Problem* Kathleen Buse,Catherine Hill,Romila Singh,2018-06-21 Understanding the many complexities that define gender inequality has been described by researchers as a grand challenge Novel insights innovation a broader community to conduct research and to ascertain effective interventions are essential in the challenge to create organizations that are gender equal As such this Research Topic in Frontiers in Psychology addresses the under representation of women in engineering and computing as a complex but solvable problem This Research Topic seeks to inform the global community about advances in understanding the under representation of women in engineering and computing with a focus on what enables change Further this Topic will promote fresh perspectives innovative methodologies and mixed method approaches important to accelerating the pace of change

**The College Handbook** ,1987 The SAGE Handbook of Outdoor Play and Learning Tim Waller,Eva Årlemalm-Hagsér,Ellen Beate Hansen Sandseter,Libby Lee-Hammond,Kristi Lekies,Shirley Wyver,2017-06-19 There has been a growing academic interest in the role of outdoor spaces for play in a child s development This text represents a coordinated and comprehensive volume of international research on this subject edited by members of the well established European Early Childhood Education Research Association Outdoor Play and Learning SIG OPAL Chapters written by authors from Europe North and South America Australasia and Asia Pacific countries are organised into six sections Theoretical Frameworks and Conceptual Approaches for Understanding Outdoor Play Learning Critical Reflections on Policy and Regulation in Outdoor Play Learning Children s Engagement with Nature Sustainability and Children s Geographies Diverse Contexts and Inclusion in Children s Outdoor Play Environments Methodologies for Researching Outdoor Play and Learning Links Between Research and Practice

**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 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

**Daily Graphic** Ransford Tetteh,2014-03-24      **Learning to Teach in the Secondary School** Susan Capel,Marilyn Leask,Sarah Younie,2016-03-17 Learning to teach involves hard work and careful preparation To become an effective teacher requires pedagogical and subject knowledge an understanding of your pupils and how they learn and the confidence to respond to dynamic classroom situations Learning to Teach in the Secondary School is the market leading text for all undergraduate postgraduate and school based routes to qualified teacher status It offers an in depth and practical introduction to the knowledge skills and understanding needed to become a confident and effective teacher With a focus on evidence based practice the book includes a wealth of examples to demonstrate how to successfully apply theory to practice and how to critically analyse your practice to maximise pupil learning This 7th edition is fully updated in light of the latest initiatives evidence and research in the field offering comprehensive coverage unit by unit of the key concepts and skills addressed on initial teacher education courses in preparation for work in schools The wide range of pedagogical features support both university based work including that up to Masters Level and school based initial teacher education and are designed to help you develop those qualities that lead to good practice and a successful future in education Written by expert practitioners thirty six essential units include adopting a positive approach to managing behaviour to support learning ways pupils learn planning lessons units of work and schemes of work motivating pupils assessment inclusion and special educational needs using ICT and digital technologies pupil grouping progression and differentiation managing time workload and stress getting your first teaching post Learning to Teach in the Secondary School provides practical help and guidance for many of the situations and potential challenges you are faced with in school Supported by the Learning to Teach Subjects in the

Secondary School Series it is an essential purchase for every aspiring secondary school teacher      **NSCA's Guide to High School Strength and Conditioning** NSCA -National Strength & Conditioning Association,Patrick McHenry,Mike Nitka,2021-11-01 The need for qualified high school strength and conditioning professionals has never been greater Whether following the framework for long term athletic development or teaching weight training as a lifelong fitness activity you need to offer both the environment and instructional skills to safely develop strong student athletes NSCA s Guide to High School Strength and Conditioning will equip you to deliver the highest quality program in the high school setting whether you are a strength and conditioning professional physical education teacher sport coach or administrator Written by a team of contributors within the world renowned National Strength and Conditioning Association NSCA s Guide to High School Strength and Conditioning summarizes the primary duties and responsibilities of the various positions and roles that contribute to developing a safe and effective program It provides insights into the benefits of offering a strength and conditioning program at the high school level and offers advice for the implementation of such a program Examples are also provided for strength and conditioning related PE curriculums to demonstrate how those types of programs can work and how they connect to the SHAPE America national standards and grade level outcomes The text is loaded with information that can be practically applied to any high school program You will learn the variables to consider when designing a resistance or cardiovascular training program and 13 detailed protocols for conducting assessments so you can objectively evaluate movement and performance Detailed exercise descriptions include beginning position movement phases breathing guidelines modifications and variations and coaching tips The descriptions along with accompanying photos teach proper technique for 28 common resistance training exercises 10 bodyweight exercises 12 anatomical core exercises 11 static and dynamic stretching exercises 12 plyometric exercises 10 speed and agility drills and 5 cardio machines Sample warm up sequences and exercise sessions for resistance plyometric speed and agility cardiovascular and circuit training are also provided all of which follow the programming guidelines and recommendations for high school student athletes NSCA s Guide to High School Strength and Conditioning includes the evidence driven information that will help any high school strength and conditioning professional including both coaches and teachers to become the best practitioner possible This valuable resource is one that you will turn to for many years to come as you build a solid strength and conditioning community for your student athletes Earn continuing education credits units A continuing education course and exam that uses this book is also available It may be purchased separately or as part of a package that includes all the course materials and exam      *Journal of the Physical Society of Japan* ,2014      *Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles* National Research Council,Division on Engineering and Physical Sciences,Board on Energy and Environmental Systems,Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles, Phase 2,2015-09-28 The light duty vehicle fleet is expected to undergo substantial technological changes over the



next several decades New powertrain designs alternative fuels advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards By the end of the next decade cars and light duty trucks will be more fuel efficient weigh less emit less air pollutants have more safety features and will be more expensive to purchase relative to current vehicles Though the gasoline powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030 such vehicles will be equipped with advanced technologies materials electronics and controls and aerodynamics And by 2030 the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation including autonomous vehicles will be well underway What are these new technologies how will they work and will some technologies be more effective than others Written to inform The United States Department of Transportation s National Highway Traffic Safety Administration NHTSA and Environmental Protection Agency EPA Corporate Average Fuel Economy CAFE and greenhouse gas GHG emission standards this new report from the National Research Council is a technical evaluation of costs benefits and implementation issues of fuel reduction technologies for next generation light duty vehicles Cost Effectiveness and Deployment of Fuel Economy Technologies for Light Duty Vehicles estimates the cost potential efficiency improvements and barriers to commercial deployment of technologies that might be employed from 2020 to 2030 This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017 2025 CAFE standards

**Minerals Yearbook** Geological Survey,Interior Department,Mines Bureau,2019-01-31 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary [Minerals Yearbook](#)

Geological Survey,Interior Department,Mines Bureau,2019-01-31 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary **Bituminous Mixtures and**

**Pavements VI** A. Nikolaidis,2015-07-28 Bituminous Mixtures and Pavements contains 113 accepted papers from the 6th International ConferenceBituminous Mixtures and Pavements 6th ICONFBMP Thessaloniki Greece 10 12 June 2015 The 6th ICONFBMP is organized every four years by the Highway Engineering Laboratory of the Aristotle University of Thessaloniki Greece in conjunction with **Handbook of Research on Science Education, Volume II** Norman G. Lederman,Sandra K.

Abell,2014-07-11 Building on the foundation set in Volume I a landmark synthesis of research in the field Volume II is a comprehensive state of the art new volume highlighting new and emerging research perspectives The contributors all experts in their research areas represent the international and gender diversity in the science education research community The volume is organized around six themes theory and methods of science education research science learning culture gender and society and science learning science teaching curriculum and assessment in science science teacher education

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