



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 10.0Ω

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

1.5 The equivalent unit for watt 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.

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Physical Science Mr. Rohit Manglik, 2024-07-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Resources in Education*, 2001 *Learning From Others* Diane Shorrocks-Taylor, Edgar W. Jenkins, 2005-12-20 Diane Shorrocks Taylor School of Education University of Leeds UK In September 1998 a conference was held at the University of Leeds entitled International comparisons of pupil performance issues and policy It was arranged by two groups within the School of Education at the University the newly formed Assessment and Evaluation Unit and the Centre for Studies in Science and Mathematics Education The joint interest in international comparisons of performance had itself arisen from earlier involvement in a follow up study of the 1995 TIMSS work in England reported in a later chapter in this book in which the TIMSS assessment outcomes were studied alongside the outcomes from the National Curriculum testing programme in England Some of the results of this investigation had proved both interesting and challenging so the decision was made to promote wider discussion of some key issues by inviting contributors from all over the world to a meeting the major aims of which were to promote an exploration of the theoretical foundations of international comparative studies of student performance the practical problems of carrying out such studies the appropriateness of the assessment models and approaches used in international comparisons the role of international comparative studies in raising standards of student performance and how international studies affect the shaping of national policy on education **Research in Education**, 1974 **Virtual and Augmented Reality, Simulation and Serious Games for Education** Yiyu Cai, Wouter van Joelingen, Koen Veermans, 2021-08-13 This book introduces state of the art research on virtual reality simulation and serious games for education and its chapters presented the best papers from the 4th Asia Europe Symposium on Simulation and Serious Games 4th AESSSG held in Turku Finland December 2018 The chapters of the book present a multi facet view on different approaches to deal with challenges that surround the uptake of educational applications of virtual reality simulations and serious games in school practices The different approaches highlight challenges and potential solutions and provide future directions for virtual reality simulation and serious games research for the design of learning material and for implementation in classrooms By doing so the book is a useful resource for both students and scholars interested in research in this field for designers of learning material and for practitioners that want to embrace virtual reality simulation and or serious games in their education *Otto E. Miller, Plaintiff-Respondent, Against Fred W. Smythe, Defendant-Appellant*,

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-03-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and

energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

Canadian Journal of Native Education ,2003 Mediated Learning Experience (MLE) Reuven Feuerstein,Pnina S. Klein,Abraham J. Tannenbaum,1991 *School Science Practical Work in Africa* Umesh Ramnarain,2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work The book highlights trends and patterns in the enactment and role of practical work across African countries Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach The book provides empirical research on approaches to practical work contextual factors in the enactment of practical work

and professional development in teaching practical work This book will be of great interest to academics researchers and post graduate students in the fields of science education and educational policy

Teaching and learning beyond the classroom Dr. Mary Jane S. Carandang, 2025-09-05 Education in the twenty first century is increasingly defined by change diversity and innovation The rapid shifts brought about by globalization technological advancement and the COVID 19 pandemic have challenged schools teachers and policymakers to rethink how learning is facilitated sustained and expanded beyond traditional classroom walls This eBook Teaching Learning Beyond Classroom is a collection of scholarly works that reflect such transformations presenting research based insights into pedagogy instructional models learner diversity and the design of instructional materials The chapters collectively capture the evolving landscape of education particularly in the Philippines while resonating with global discussions on equity adaptability and learner centered approaches Each contribution highlights how theory and practice intersect to foster meaningful educational experiences providing readers with perspectives that are both locally grounded and globally relevant Chapter I Linking Foundations and Futures Instructional Models and Flexible Learning in Education examines the theoretical bases of teaching and learning the development of instructional models and the integration of flexible modalities accelerated by the COVID 19 pandemic It situates foundational concepts within the realities of an ever changing educational environment Chapter II Reframing Philippine Education Learners Modalities and Inclusive Pedagogical Practices highlights the complexities of Philippine education by addressing learner diversity multiple intelligences blended learning and inclusive approaches for marginalized contexts It emphasizes the imperative for policies and practices that respond to the varied needs of learners Chapter III Contextualized Teaching and Learning Strategies from Kindergarten to High School Classrooms presents pedagogical innovations across educational levels From corrective feedback and kindergarten strategies to physics peer discussions mathematics applications and ecological integration this chapter showcases how contextualized methods enhance engagement and deepen understanding Chapter IV Learner Engagement through Instructional Materials From Game Based Strategies to Cultural Integration focuses on the role of instructional materials in promoting literacy numeracy creativity and cultural awareness It underscores the importance of developing resources that not only support curriculum delivery but also respond to learners contexts and interests As a collection these chapters contribute to advancing dialogue on effective inclusive and adaptable education They reaffirm the importance of grounding practices in sound theory while embracing innovation and contextual responsiveness It is hoped that Teaching Learning Beyond Classroom will serve as a valuable reference for educators researchers policymakers and stakeholders committed to reimagining education for resilient and equitable futures

Resources in Education ,1997 The Big Book of Home Learning Volume 1 Getting Started Mary Pride, 2000-09 School & University Review ,1970 **International Handbook of Science Education** B. Fraser, Kenneth Tobin, 2003-06-30 The International Handbook of Science Education is a two volume edition consisting of 77

chapters arranged into 10 sections pertaining to the most significant issues in science education Current research and thinking and associated implications for practice are presented for learning teaching learning environments teacher education curriculum educational technology research methods assessments and evaluation equity and history and philosophy of science Each section contains a lead chapter that provides an overview and synthesis of the field and 5-8 related chapters that provide a narrower focus on research and current thinking on the key issues in that field Leading researchers from around the world have participated as authors and consultants to produce a resource that is comprehensive detailed and up to date The chapters provide the most recent and advanced thinking in science education from international leaders in the field The Handbook is the most authoritative resource yet produced in science education

The Chemical News and Journal of Physical Science ,1918 **Harcourt Science: Physical science [grade] 6, units E and F, teacher's ed** ,2000 **Chemical News and Journal of Physical Science** ,1918 **Science Education in Canada: Policies, practices & perceptions** F. Michael Connelly,Robert Kirby Crocker,Heidi Kass,1985 *Improving Student Achievement in Science* ,1999

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