

- Answer ALL the questions in the same handwriting.
- Non-programmable calculators may be used.
- Appropriate mathematical instruments may be used.
- Round off your final numerical answers to a minimum of two decimal places.
- Give detailed reasons, discussions, if asked where needed.
- Write neatly and legibly.

Learner's Name

Learner's Surname

Grade

Page 1 of 5

The following are represented by A, B and C:
 A) Amplitude, wavelength, wave length
 B) Crest, trough, wavelength
 C) Amplitude, wave length, pulse length
 D) Crest, trough, wavelength

[2 Marks]

1.5. The diagram below shows two points A and B on a wave.



Page 2 of 5

Physical Sciences – Paper 1 (Physical)

How many wavelengths separate point A and B?

- A) 1,25 B) 1 C) 1,5 D) 3

[2 Marks]

1.6. Devices are sometimes placed under the floor of a house to detect fire. This equipment uses the following wave...

- A) X-ray B) Infrared light C) Ultrasound D) Ultra violet light

[2 Marks]

1.7. The following are an example of electromagnetic waves:

- A) Microwaves, visible light, X-rays
 B) X-rays, visible light, microwaves
 C) Microwaves, X-rays, visible light

Physical Sciences – Paper 1 (Physical)

2.2. Identify TWO points in the graph at which the particles would be moving in the same direction.

[2 Marks]

2.3. Which point has the maximum displacement?

[1 Mark]

Calculate

2.4. The frequency of the wave produced

[2 Marks]

2.5. The wavelength of the wave produced

[1 Mark]

Physical Science Exam Paper Grade 10 2013

M Walker



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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

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A Diversity of Pathways Through Science Education Yann Shiou Ong, Timothy Ter Ming Tan, Yew-Jin Lee, 2024-06-18 This book presents the work of academics who contributed their work at the International Science Education Conference ISEC 2021 in alignment with the conference theme 2020 Vision for Science Education Research Collectively the chapters aim to evoke intellectual dialogues on current and future trends in science education It features chapters that are grouped thematically into three sections Questions and Questioning in Science STEM education Developing Science Teaching and Assessment and History Philosophy and Sociology of Science Engineering and Informal Learning Through the various sections the book presents empirical studies in science and engineering classrooms or laboratories puts forward a framework for problem based learning provides an account of a prominent scientist's efforts in promoting practical science through analysis of historical documents and uncovers trends in informal science learning space research through a review of literature Each section is introduced by a commentary with further insights and thought provoking questions on ideas raised in the chapters The book also includes a Notes to Our Future Colleagues section in each chapter which presents readers with a collective vision for the state of science education research in the year 2050

A scholarly contribution to educational praxis M.A. Mokoena, J.M. (Ona) Janse van Rensburg, M. Erasmus, E. Mentz, C.B. Zulu, A. Cronje, E.K. Materechera, W.T. Dudu, A.T. Kanyimba, S.P. Raath, C. Kruger, A. Loubser, A.E. Pienaar, A. Kloppe, S. Ellis, N.T. Petersen, J. de Beer, J. Varughese, A. Seugnet Blignaut, C. Els, 2016-12-31 This publication contains original research targeting scientific specialists in the field of education through research endeavours grounded on a philosophical basis as well as being embedded in the empirical The research methodology of each chapter emanates from applicable philosophical assumptions in the form of an applicable theoretical and conceptual framework The latter forms a firm basis for the application of sound empiricism The content of this book adds to the body of scholarly knowledge in education In his evaluation of the book Acting Executive Dean Faculty of Education and Training Professor Akpovire Oduaran made the following remarks To a large extent the ideas put together in this book have come from data generated not just from literature found in books and journals but actual interactions with educators and the learning environment So then what the reader is offered in this volume is the articulation of ideas that have been interrogated structured and presented in

surprisingly simplistic and yet incisive and academically enriching content that can match the standards of scholarship that is available in the Western World Yet what makes this book so welcome relevant and timely is the fact that it is built around Afrocentric theories and practices such as one may find in imported literature

Multilingual Education Yearbook 2021
 Anthony A. Essien,Audrey Msimanga,2021-05-04 This edited book attempts to foreground how challenges and complexities between policy and practice intertwine in the teaching and learning of the STEM subjects in multilingual settings and how they policy and practice impact on educational processes developments and outcomes The unique feature of this book thus lies in its combination of not just language issues in the teaching and learning of the STEM subjects but also in how these issues relate to policy and practice in multilingual contexts and how STEM research and practice may inform and shape language policies and their implementation in multilingual contexts This book is of interest to stakeholders involved in STEM education such as researchers undergraduate and graduate students tertiary level teachers teacher educators curriculum developers as well as other professionals with responsibilities in STEM education subjects The book is written in a way that is accessible to a wide range of backgrounds including those who are in language education

CRASH COURSE JEE(MAIN) / AIEEE - PHYSICS V&S EDITORIAL BOARD,2015-01-09 This book is meant to be a quick refresher for JEE MAIN AIEEE aspirants With the aim and scope of providing a comprehensive study package for aspirants of JEE MAIN AIEEE this crash course focuses less on theory and more on concepts formulae and tips This is supported by plenty of practice problems based on the latest formats structure and syllabus of JEE MAIN AIEEE This is further supplemented by a CD given along with this study kit with fully solved 2012 JEE MAIN AIEEE question paper Salient features A Based on the latest pattern and syllabus of JEE MAIN AIEEE A Solved examples practice problems in each chapter A Previous years question papers fully solved A Less theory and more concepts formulae and tips A Practice CD with fully solved JEE MAIN AIEEE 2012 question paper A Plenty of problems for practice A Comprehensive holistic revision of the complete syllabus of JEE MAIN AIEEE A In depth analysis of the recent trends of JEE MAIN AIEEE A A quick and efficient study kit for JEE MAIN AIEEE aspirants A Facilitates self study A Low priced handy book for quick and efficient revision

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Using Multimodal Representations to Support Learning in the Science Classroom Brian Hand,Mark McDermott,Vaughan Prain,2015-11-06 This book provides an international perspective of current work aimed at both clarifying the theoretical foundations for the use of multimodal representations as a part of effective science education pedagogy and the pragmatic application of research findings to actual classroom settings Intended for a wide ranging

audience from science education faculty members and researchers to classroom teachers school administrators and curriculum developers the studies reported in this book can inform best practices in K 12 classrooms of all science disciplines and provide models of how to improve science literacy for all students Specific descriptions of classroom activities aimed at helping infuses the use of multimodal representations in classrooms are combined with discussion of the impact on student learning Overarching findings from a synthesis of the various studies are presented to help assert appropriate pedagogical and instructional implications as well as to suggest further avenues of research

ECIE 2022 17th European Conference on Innovation and Entrepreneurship Pantelis Sklias,Nikolaos Apostolopoulos,2022-09-15

Preventing Bullying Through Science, Policy, and Practice National Academies of Sciences, Engineering, and Medicine,Health and Medicine Division,Division of Behavioral and Social Sciences and Education,Committee on Law and Justice,Board on Children, Youth, and Families,Committee on the Biological and Psychosocial Effects of Peer Victimization: Lessons for Bullying Prevention,2016-10-14

Bullying has long been tolerated as a rite of passage among children and adolescents There is an implication that individuals who are bullied must have asked for this type of treatment or deserved it Sometimes even the child who is bullied begins to internalize this idea For many years there has been a general acceptance and collective shrug when it comes to a child or adolescent with greater social capital or power pushing around a child perceived as subordinate But bullying is not developmentally appropriate it should not be considered a normal part of the typical social grouping that occurs throughout a child s life Although bullying behavior endures through generations the milieu is changing Historically bullying has occurred at school the physical setting in which most of childhood is centered and the primary source for peer group formation In recent years however the physical setting is not the only place bullying is occurring Technology allows for an entirely new type of digital electronic aggression cyberbullying which takes place through chat rooms instant messaging social media and other forms of digital electronic communication Composition of peer groups shifting demographics changing societal norms and modern technology are contextual factors that must be considered to understand and effectively react to bullying in the United States Youth are embedded in multiple contexts and each of these contexts interacts with individual characteristics of youth in ways that either exacerbate or attenuate the association between these individual characteristics and bullying perpetration or victimization Recognizing that bullying behavior is a major public health problem that demands the concerted and coordinated time and attention of parents educators and school administrators health care providers policy makers families and others concerned with the care of children this report evaluates the state of the science on biological and psychosocial consequences of peer victimization and the risk and protective factors that either increase or decrease peer victimization behavior and consequences

Grading NASA's Solar System Exploration Program National Research Council,Division on Engineering and Physical Sciences,Space Studies Board,Committee on Assessing the Solar System Exploration Program,2008-04-25

The NASA Authorization Act of 2005 directed the agency to ask the NRC to assess

the performance of each division in the NASA Science directorate at five year intervals In this connection NASA requested the NRC to review the progress the Planetary Exploration Division has made in implementing recommendations from previous relevant NRC studies This book provides an assessment of NASA s progress in fulfilling those recommendations including an evaluation how well it is doing and of current trends The book covers key science questions flight missions Mars exploration research and analysis and enabling technologies Recommendations are provided for those areas in particular need of improvement

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