

GRADE 11 PHYSICAL SCIENCES MARCH TEST

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 (1.1-1.6) on your folio paper. Example 1.7, D.

- 1.1 The graphs below show the relationship between the net force and the acceleration for two masses X and Y.



Which one of the following statements is true?

- A. Mass X is greater than mass Y.
B. The acceleration of mass X is greater than the acceleration of mass Y.
C. Mass Y is greater than mass X.
D. The acceleration of mass X is greater than the acceleration of mass Y.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A car moving with a constant speed.
B. A car moving with a constant speed in a circular path.
C. A car moving with a constant speed in a straight line.
D. A car moving with a constant speed in a circular path.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not acted upon by any forces.
B. An object is not acted upon by any forces.
C. An object is not acted upon by any forces.
D. An object is not acted upon by any forces.
- 1.4 The inertia of an object...
- A. is a measure of its mass.
B. is a measure of its resistance to change in motion.
C. is a measure of its resistance to change in motion.
D. is a measure of its resistance to change in motion.
- 1.5 An astronaut has a weight F_g on Earth. What distance, in terms of the radius of the Earth (r), will the astronaut be if his weight is a 1/4 of his weight (F_g) on the

surface of the Earth?

- A. r
B. $2r$
C. $3r$
D. $4r$

- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:

- A. The box is too heavy.
B. The box is too light.
C. The box is too smooth.
D. The box is too rough.

[14]

QUESTION 2

The grade 11 learners learn that there is more than one way to determine the resultant of two vectors. One way is the component method. They want to use this method to find the resultant of the forces acting on a bucket by the ropes from which the bucket is suspended. The bucket is stationary.

- 2.1 Draw the free-body diagram.

(2)

- 2.2 The tension in rope P is 100N at an angle of 30° to the vertical and the tension in Q is 51,52N at 45° to the vertical.



Calculate the MAGNITUDE of the:

- 2.2.1 Resultant of the components of P and Q horizontally.
2.2.2 Resultant of the components of P and Q vertically.
2.2.3 Resultant of the horizontal components.
2.2.4 Resultant of the vertical components.
2.2.5 Resultant of the forces acting on the bucket.

(4)

(4)

(5)

(5)

(5)

- 2.3 Calculate the mass of the bucket.

(3)

[14]

Grade 11 Physical Science Paper 1 2013 Preview For Revision

**Stephanie Clark, Stephanie
Jung, Buddhi Lamsal**



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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 Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand the historical trends and patterns in that body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research the Handbook of Research on Science Education Volume II is an essential resource for the entire science education community

Early Science Education – Goals and Process-Related Quality Criteria for Science Teaching Yvonne Anders, Ilonca Hardy, Sabina Pauen, Jörg Ramseger, Beate Sodian, Mirjam Steffensky, 2017-11-13 Scientific contributions authored by distinguished experts from the field of early education are published periodically within the framework of the series Scientific Studies on the Work of the Haus der kleinen Forscher Foundation This publication series serves to foster informed dialogue between the Foundation scientists and practitioners with the aim of giving all early childhood education and care centres after school centres and primary schools in Germany scientifically sound support in fulfilling their early education mandate This fifth volume in the series focuses on goals of science education at the level of the children the early childhood professionals and the pedagogical staff at after school centres and primary schools and on process related quality criteria for science teaching at pre primary and primary level In their expert reports Yvonne Anders Ilonca Hardy Sabina Pauen Beate Sodian and Mirjam Steffensky specify pedagogical content dimensions of the goals of early science education at pre primary and primary school age In addition to theoretically underpinning these goals the authors present instruments for their assessment In his expert report J rg Ramseger formulates ten quality criteria for science teaching Early childhood professionals and pedagogical staff at after school centres and primary schools can draw on these process related criteria when planning lessons and conducting self evaluations of science learning opportunities at pre primary and primary level The concluding chapter of the volume describes the implementation of these expert recommendations in the substantive offerings of and the accompanying research on the Haus der kleinen Forscher Foundation

Insights in teacher education: 2022 Stefinee Pinnegar, Ramona Maile Cutri, 2024-04-22

Evidence Based Physical Therapy Linda Fettaers, Julie Tilson, 2018-10-26 Improve outcomes through evidence based therapy This practical easy to use guide uses a five step

process to show you how to find appraise and apply the research in the literature to meet your patient's goals You'll learn how to develop evidence based questions specific to your clinical decisions and conduct efficient and effective searches of print and online sources to identify the most relevant and highest quality evidence Then you'll undertake a careful appraisal of the information interpret the research and synthesize the results to generate valid answers to your questions And finally you'll use the Critically Appraised Topic CAT tool to communicate your findings

Test-Enhanced Learning Kristian Still, 2023-05-13 Written by Kristian Still Test Enhanced Learning A practical guide to improving academic outcomes for all students is an informative guidebook that explores the wealth of evidence behind and the benefits of test enhanced learning spaced retrieval practice and personalisation Detailing the most up to date research into improving learning and retention it takes us on a journey into test enhanced learning spaced retrieval practice motivation metacognition and personalisation In so doing the book provides a blueprint for all teachers and schools to improve the academic outcomes of their students and to achieve this in ways that improve the motivation of learners and reduces the workload for teachers Kristian Still has been developing these ideas with his classes for many years and has achieved considerable success in terms of the direct learning gains and improved assessment grades of his pupils and the indirect gains in students' growing confidence in lessons with a wider group of pupils contributing to class and improved classroom behaviour Consequently students are finding greater comfort in class and experiencing less pressure or underpreparedness when a question is asked The book is supported by the free Remembermore app which uses digital flashcards as an aid to deliver the learning gains of personalised spaced retrieval practice providing teachers with insights into the effectiveness of their own teaching It also contains a number of practical case studies from teachers using these techniques and the app to produce great results in their schools Spaced retrieval practice is a highly effective but counter intuitive revision technique in that it involves forgetting and relearning knowledge Test Enhanced Learning provides a blueprint for motivating students to adopt this technique in favour of seemingly easier but less effective techniques such as re-reading Moreover the Remembermore app does most of the convincing for you It is a tool not only to provide the flashcards for retrieval practice but also to demonstrate the power of the technique to pupils The book goes a step beyond mere retrieval practice offering a fresh approach to test enhanced learning both pretesting and post testing supported by real classroom based routines that have been tried and tested by both Primary and Secondary teachers across a range of subjects Exploring the research behind test enhanced learning it reveals that both pretesting and post testing retrieval practice offers improved memorisation and secures long term learning Suitable for all teachers in all settings

Targeted Therapies for Glioblastoma: A Critical Appraisal Shiv K. Gupta, Sani H. Kizilbash, Thierry M. Muanza, 2020-01-22

Handbook of Venous and Lymphatic Disorders Peter Gloviczki, 2017-03-03 The Handbook of Venous Disorders first published in 1996 is a handbook for all clinicians and surgeons who are involved with the investigation evaluation or management of venous and lymphatic diseases or malformations These disorders include varicose veins venous

ulcers DVT lymphedema and pulmonary embolism as well as damage to the veins through trauma or tumor growth The new edition has been completely updated to bring the book in line with current teaching practices **Writing for Publication**

Mary Renck Jalongo, Olivia N. Saracho, 2016-05-24 This book offers systematic instruction and evidence based guidance to academic authors It demystifies scholarly writing and helps build both confidence and skill in aspiring and experienced authors The first part of the book focuses on the author s role writing s risks and rewards practical strategies for improving writing and ethical issues Part Two focuses on the most common writing tasks conference proposals practical articles research articles and books Each chapter is replete with specific examples templates to generate a first draft and checklists or rubrics for self evaluation The final section of the book counsels graduate students and professors on selecting the most promising projects generating multiple related yet distinctive publications from the same body of work and using writing as a tool for professional development Written by a team that represents outstanding teaching award winning writing and extensive editorial experience the book leads teacher scholar authors to replace the old publish or perish dictum with a different growth seeking orientation publish and flourish Pursuing quality education in Physical and Rehabilitation

Medicine Francesca Gimigliano, Maria Gabriella Ceravolo, Jorge Lains, 2023-08-15 High quality rehabilitation care represents a constitutive element of health systems worldwide The harmonization of staff education both at the undergraduate and postgraduate level is a key element for ensuring the highest standard of rehabilitation care International bodies like the UEMS Board for Physical and Rehabilitation Medicine PRM or the International Society for PRM have already delivered regulatory documents setting standards in postgraduate PRM education The implementation of such rules is to be validated worldwide with special attention to low and middle income countries This Research Topic aims to stimulate awareness in the scientific community especially for those involved in postgraduate education and policy making decisions It will highlight the need for developing competency based education as a powerful mechanism to align education and training with health system priorities This holds particular value for resource limited countries where the knowledge and skills of rehabilitation doctors need to reflect not only the population s health profile but also the strengths and weaknesses e g workforce gaps and maldistributions of the health system This goal can be achieved through sharing experiences between those who have engaged themselves in the process of program development curriculum design and competency based education in rehabilitation Over the last 25 years the number of papers addressing the issue of residency education in PRM has exponentially increased testifying the interest towards the role of rehabilitation and more specifically of the PRM doctors as leaders of the rehabilitation team Food Processing Stephanie Clark, Stephanie Jung, Buddhi Lamsal, 2014-06-03 FOOD

PROCESSING Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs

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