

## GRADE 12 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 (1.1-1.7) on your folio paper. Example 1.8. D.

- 1.1 Which of the following pairs of compounds contains members of the same homologous series?
- A Ethanol and butane  
 B Ethanol and propanoic acid  
 C Ethanol and propanal  
 D Ethanol and butanoic acid
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A A constant number of different ions are released.  
 B A strong current flows until just the original concentration of ions remains.  
 C An electric field is set up and a potential difference is maintained.  
 D An electric current flows until the electrolyte is exhausted.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces such as friction and the ground.  
 B An object is moving in a circle at a constant speed but the forces are not balanced.  
 C An object is free of any contact forces except for the normal force exerted by a solid floor.  
 D An object is free of any contact forces except for the normal force exerted by a solid floor.
- 1.4 The inertia of an object...
- A increases as the object's velocity increases.  
 B is the resistance to applied forces by the object's acceleration.  
 C is the resistance to any change in the state of motion.  
 D increases as the frictional force on the object increases.

- 1.5 An astronaut has a weight  $E_E$  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 ( $E_E$ ) on the surface of the Earth?
- A  $r$   
 B  $2r$   
 C  $4r$   
 D  $16r$

- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A Frictional force is zero.  
 B Frictional force is more than 100N.  
 C Frictional force is less than 100N.  
 D None of the above.
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A Frictional force is zero.  
 B Frictional force is more than 100N.  
 C Frictional force is less than 100N.  
 D None of the above.

[14]

### QUESTION 2

Three organic compounds (A, B and C) with different functional groups are given below.

A: 2,3-dimethyl-2-one



C:  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

- 2.1 Write down the functional group which is present in the cation to form such a variety of organic compounds. (2)
- 2.2 Define the term functional group. (2)
- 2.3 Write down the:  
 2.3.1 IUPAC name of compound A. (2)  
 2.3.2 IUPAC name of compound B. (2)

# Physical Science Grade12 March 2014

**Sebastian Brünink**



## **Physical Science Grade12 March 2014:**

*Science Blogging* Christie Wilcox, Bethany Brookshire, Jason G. Goldman, 2016-03-01 Here is the essential how to guide for communicating scientific research and discoveries online ideal for journalists researchers and public information officers looking to reach a wide lay audience Drawing on the cumulative experience of twenty seven of the greatest minds in scientific communication this invaluable handbook targets the specific questions and concerns of the scientific community offering help in a wide range of digital areas including blogging creating podcasts tweeting and more With step by step guidance and one stop expertise this is the book every scientist science writer and practitioner needs to approach the Wild West of the Web with knowledge and confidence [The Kitchen Pantry Scientist Physics for Kids](#) Liz Lee

Heinecke, 2022-02-08 The Kitchen Pantry Scientist Physics for Kids features biographies of 25 leading physicists past and present accompanied by accessible hands on experiments and activities to bring the history and principles of physics alive

*Signal*, 2014 **Girls and Women in STEM** Janice Koch, Beverly Irby, Barbara Polnick, 2014-01-01 Encouraging the participation of girls and women in science technology engineering and mathematics STEM remains as vital today as it was in the 1970s hence the sub title A Never Ending Story This volume is about ongoing advocacy on behalf of the future workforce in fields that lie on the cutting edge of society s future Acknowledging that deeply embedded beliefs about social and academic entitlement take generations to overcome the editors of this volume forge forward in the knowledge that these chapters will resonate with readers and that those in positions of access will learn more about how to provide opportunities for girls and women that propel them into STEM fields This volume will give the reader insight into what works and what does not work for providing the message to girls and women that indeed STEM fields are for them in this second decade of the 21st century Contributions to this volume will connect to readers at all levels of STEM education and workforce participation Courses that address teaching and learning in STEM fields as well as courses in women s studies and the sociology of education will be enhanced by accessing this volume Further students and scholars in STEM fields will identify with the success stories related in some of these chapters and find inspiration in the ways their own journeys are reflected by this volume *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

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**Clinical Radiation Oncology** Leonard L. Gunderson, MD, MS, FASTRO, Joel E. Tepper, MD, 2015-08-26 Perfect for radiation oncology physicians and residents needing a multidisciplinary treatment focused resource this updated edition continues to provide the latest knowledge in this consistently growing field Not only will you broaden your understanding of the basic biology of disease

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*Annual Report Mpumalanga (South Africa). Department of Education, 2015*

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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

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Conditioning Association, Mike Nitka, 2022 NSCA's Guide to High School Strength and Conditioning equips you to deliver the highest quality strength and conditioning program in the high school setting whether you are a strength and conditioning professional, physical education teacher, sport coach or administrator

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*A Guidebook to South Carolina Historical Markers*, 2021-02-19 The South Carolina Historical Marker Program established in 1936 has approved the installation of more than 1 700 interpretive plaques each highlighting how places both grand and unassuming have played important roles in the history of the Palmetto State These roadside markers identify and interpret places valuable for understanding South Carolina's past including sites of consequential events and buildings structures or other resources significant for their design or their association with institutions or individuals prominent in local state or national history This volume includes a concise history of the South Carolina Historical Marker Program and an overview of the marker application process For those interested in specific historic periods or themes the volume features condensed lists of markers associated with broader topics such as the American Revolution African American history women's history the Civil War and Reconstruction While the program is administered by the South Carolina Department of Archives and History most markers are proposed by local organizations that serve as a marker's official sponsor paying its cost and assuming responsibility for its upkeep In that sense this inventory is a record not just of places and subjects that the state has deemed worthy of acknowledgment but of those that South Carolinians themselves have worked to enshrine

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**Child Development From Infancy to Adolescence** Laura E. Levine, Joyce Munsch, 2023-02-14 In *Child Development from Infancy to Adolescence Third Edition* Laura Levine and Joyce Munsch employ a chronological organization to introduce topics within the field of child development through unique and engaging Active Learning opportunities Within each chapter of this innovative pedagogically rich text the authors introduce students to a wide range of real world applications of psychological research to child development With this edition the text enhances its coverage of cultural examples while emphasizing diversity The Active Learning and Journey of Research content incorporated throughout the book foster a dynamic and personal learning process for students The authors cover the latest topics shaping the field of child development including a focus on neuroscience diversity and culture without losing the interest of undergraduate students

**Cognitive Development in Informal Learning Institutions: Collaborations Advancing Research and Practice** Janet Boseovski, Catherine A. Haden, Thanujeni Pathman, 2022-02-21 *Urban Horticulture* Tina Marie Waliczek, Jayne M. Zajicek, 2016-01-06 In the wake of urbanization and technological advances public green spaces within cities are disappearing and people are spending more time with electronic devices than with nature *Urban Horticulture* explores the importance of horticulture to the lives health and well being of urban populations It includes contributions from experts in research

**Motor Skills and Their Foundational Role for Perceptual, Social, and Cognitive Development** Klaus Libertus, Petra Hauf, 2017-05-18 Motor skills are a vital part of healthy development and are featured prominently both in physical examinations and in parents baby diaries It has been known for a long time that motor development is critical for children s understanding of the physical and social world Learning occurs through dynamic interactions and exchanges with the physical and the social world and consequently movements of eyes and head arms and legs and the entire body are a critical during learning At birth we start with relatively poorly developed motor skills but soon gain eye and head control learn to reach grasp sit and eventually to crawl and walk on our own The opportunities arising

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**Urban Mobility and Social Equity in Latin America** Daniel Oviedo, Natalia Villamizar Duarte, Ana Marcela Ardila Pinto, 2020-11-16. This volume of Transport and Sustainability focuses on how spatial and social mobilities are intertwined in the reproduction of spatial and social inequities in Latin American cities.

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