

## 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 ethanoic acid  
 C Ethanol and propanal  
 D Ethanol and propanone
- 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 new element is formed and the original quantities of the elements are conserved.  
 C An ionic substance gains a positive charge and a negative charge.  
 D An ionic compound is produced containing equal numbers of cations and anions.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces and is in free fall.  
 B An object is moving in a circle at a constant speed and is in free fall.  
 C An object is in a state of free fall and is in a state of weightlessness.  
 D An object is in a state of free fall and is in a state of weightlessness.
- 1.4 The inertia of an object...
- A is measured by the mass of the object.  
 B is the resistance to change in the object's motion.  
 C is the resistance to change in the object's velocity.  
 D is the resistance to change in the object's acceleration.

- 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  $8r$

- 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.
- 1.7 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

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 of compound A and the functional group of compound B. (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 Grade 1exam Papers 2012

**Joacim Rocklöv**



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**STEM: Physical Science** , 5 Practice Sets for SAT, MAT & LCT - NTSE Stage 1 Disha Publication, 5 Practice Sets for SAT MAT LCT NTSE Stage 1 contains 5 Practice Sets as per the latest pattern for each of the 3 parts SAT MAT LCT The detailed Solutions are provided for all the sets **5 Steps to a 5 AP**

**Physics B&C, 2012-2013 Edition** Greg Jacobs,Joshua Schulman,2011-06-10 A Perfect Plan for the Perfect Score We want you to succeed on your AP exam That s why we ve created this 5 step plan to help you study more effectively use your preparation time wisely and get your best score This easy to follow guide offers you a complete review of your AP course strategies to give you the edge on test day and plenty of practice with AP style test questions You ll sharpen your subject knowledge strengthen your thinking skills and build your test taking confidence with Full length practice exams modeled on the real test All the terms and concepts you need to know to get your best score Your choice of three customized study schedules so you can pick the one that meets your needs The 5 Step Plan helps you get the most out of your study time Step 1 Set Up Your Study Program Step 2 Determine Your Readiness Step 3 Develop the Strategies Step 4 Review the Knowledge Step 5 Build Your Confidence Topics include A Bit About Vectors Free Body Diagrams and Equilibrium Kinematics Newton s Second Law F net ma Momentum Energy Conservation Gravitation and Circular Motion Rotational Motion for Physics C Students Only Simple Harmonic Motion Thermodynamics for Physics B Students Only Fluid Mechanics for Physics B Students Only Electrostatics Circuits Magnetism Waves Optics for Physics B Students Only Atomic and Nuclear Physics for Physics B Students Only

*Handbook of Research on Science Learning Progressions* Hui Jin,Duanli Yan,Joseph Krajcik,2024-07-30 Gathering contributions from leading scholars around the world this handbook offers a comprehensive

resource on the most recent advances in research surrounding the theories methodologies and applications of science learning progressions Researchers and educators have used learning progressions to guide the design and alignment of curriculum instruction and assessment and to help students learn scientific knowledge and practices in a coherent and connected way across multiple years This handbook lays out the development and current state of research in this field across four sections learning progression theories and methodologies learning progressions to promote student learning teachers learning and use of learning progressions and new technology in learning progression research Featuring internationally recognized experts in learning progression research as well as up and coming voices the Handbook of Research on Science Learning Progressions offers a defining new resource for researchers teachers and teacher educators and curriculum and assessment developers in science education

**Parliamentary Debates (Hansard).** Great Britain. Parliament. House of Commons,2012

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**Science Education Research and Practice in Asia** Mei-Hung Chiu,2016-06-10 This book discusses the scope of science education research and practice in Asia It is divided into five sections the first consists of nine chapters providing overviews of science education in Asia China Lebanon Macau Malaysia Mongolia Oman Singapore Taiwan and Thailand The second section offers chapters on content analysis of research articles while the third includes three chapters on assessment and curriculum The fourth section includes four chapters on innovative technology in science education and the fifth section consists of four chapters on professional development and informal learning Each section also has additional chapters providing specific comments on the content This collection of works provides readers with a starting point to better understand the current state of science education in Asia

*Application of Visual Data in K-16 Science Classrooms* Kevin D. Finson,Jon Pedersen,2015-03-01 This book examines visual data use with students PK 16 as well as in pre service in service science teacher preparation Each chapter includes discussion about the current state of the art with respect to science classroom application and utilization of the particular visual data targeted by the author s discussion and explanation about the targeted visual data as applied by the author in his her classroom use of visual data as a diagnostic tool its use as an assessment tool and discussion of implications for science teaching and or science teacher preparation Although the body of research and practice in this field is growing there remains a gap in the literature about clearly explicating the use of visual data in the science classroom A growing body of literature discusses what visual data are although this topic is still viewed as being at the beginning of its development in educators thinking and there are some scattered examples of studies exploring the use of visual data in science classrooms although those studies have not necessarily clearly identified their foci as visual data per se As interest and attention has become more focused on visual data a logical progression of questioning has been how visual data are actually applied in the science classroom whether it be early elementary college or somewhere in

between Visual data applications of interest to the science education community include how it is identified how it can be used with students and how students can generate it themselves how it can be employed as a diagnostic tool in concept development and how it can be utilized as an assessment tool This book explores that as well as a variety of pragmatic ways to help science educators more effectively utilize visual data and representations in their instruction

**Strategic Journeys for Building Logical Reasoning, K-5** Tammy Jones, Leslie Texas, 2016-06-17 Help your students develop logical reasoning and critical thinking skills This new book from bestselling authors and popular consultants Tammy Jones and Leslie Texas offers authentic logic building activities and writing strategies that can be used across all subject areas in grades K 5 Filled with hands on activities and photocopiable tools Strategic Journeys will help you guide students into deeper thinking to go beyond the surface of content to true understanding Topics include Identifying opportunities for students to engage in meaningful and relevant writing across the content areas Introducing a logical reasoning process questioning structure and bridging models to allow students to delve deeper into problems Incorporating literature to increase student engagement and make content come alive for your students Building vocabulary and literacy skills through fun activities aimed at increasing proficiency Using the Three Phases of Logical Reasoning to plan lessons effectively help students reflect on their progress and implement the strategies successfully The strategies in this book have been implemented in hundreds of classrooms around the country and have been proven to increase student engagement promote higher order thinking and in depth reasoning and improve overall achievement

**School Library Management** Gail K. Dickinson, Judi Repman, 2015-01-26 This book compiles selected articles from Library Media Connection to help school librarians and pre service librarians learn about how to implement best practices for school library management At a time when budget cuts threaten the role of the school librarian dynamic learning experiences can resurrect the usefulness of the library and the role of its staff The seventh edition of this popular book helps librarians develop engaging school library programs for greater student involvement Comprised of important articles from Library Media Connection LMC School Library Management Seventh Edition is a compilation of best practices in the field of school library management An excellent textbook for professors teaching LIS courses the book contains updates to standards and technologies and features the latest initiatives guiding practices including Standards for the 21st Century Learner and Empowering Learners Guidelines for School Library Programs Each of the book s five sections features helpful tips from LMC and lists relevant resources for school library management Selected articles address standards inquiry ethics and information literacy The book also includes a focus on the role of the school librarian in designing authentic assessments

*Mineral Resource Estimation* Mario E. Rossi, Clayton V. Deutsch, 2013-12-21 Mineral resource estimation has changed considerably in the past 25 years geostatistical techniques have become commonplace and continue to evolve computational horsepower has revolutionized all facets of numerical modeling mining and processing operations are often larger and uncertainty quantification is becoming standard practice Recent books focus

on historical methods or details of geostatistical theory So there is a growing need to collect and synthesize the practice of modern mineral resource estimation into a book for undergraduate students beginning graduate students and young geologists and engineers It is especially fruitful that this book is written by authors with years of relevant experience performing mineral resource estimation and with years of relevant teaching experience This comprehensive textbook and reference fills this need

**Graduate Programs in Business, Education, Information Studies, Law & Social Work 2014 (Grad 6)** Peterson's, 2013-12-20 Peterson's Graduate Programs in Business Education Information Studies Law Social Work 2014 contains comprehensive profiles of more than 11 000 graduate programs in disciplines such as accounting finance business administration management education human resources international business law library information studies marketing social work transportation management and more Up to date info collected through Peterson's Annual Survey of Graduate and Professional Institutions provides valuable data on degree offerings professional accreditation jointly offered degrees part time evening weekend programs postbaccalaureate distance degrees faculty students requirements expenses financial support faculty research and unit head and application contact information There are helpful links to in depth descriptions about a specific graduate program or department faculty members and their research and more Also find valuable articles on financial assistance the graduate admissions process advice for international and minority students and facts about accreditation with a current list of accrediting agencies

Informal STEM Learning at Home and in Community Spaces Bradley Morris, Brenna Hassinger-Das, Rachael Todaro, Jennifer DeWitt, 2024-03-22 Children in Western countries spend only about 20% of their waking time in school Meltzoff et al 2009 Leveraging the 80% of time that they spend outside of school can provide children with opportunities to engage in meaningful authentic STEM learning experiences with family members other caregivers and children STEM learning and readiness go beyond acquiring content knowledge to include interest engagement and motivation for STEM learning as well as the formation of a STEM identity To date there has been a dearth of research focusing on children's informal STEM experiences when compared to formal school based STEM learning experiences This Research Topic focuses attention on the authentic everyday experiences of children and how these experiences provide opportunities for STEM learning engagement and identity In addition these papers will explore how these everyday experiences can be leveraged and augmented to promote STEM learning and engagement through culturally relevant design and implementation

Constitutive Models for Rubber X Alexander Lion, Michael Jöhlitz, 2017-08-15 In order to develop innovative products to reduce development costs and the number of prototypes and to accelerate development processes numerical simulations become more and more attractive As such numerical simulations are instrumental in understanding complicated material properties like chemical ageing crack propagation or the strain and temperature induced crystallisation of rubber Therefore experimentally validated and physically meaningful constitutive models are indispensable Elastomers are used for products like tyres engine and suspension mounts or seals to name a few

The interest in modelling the quasi static stress strain behaviour was dominant in the past decades but nowadays the interests also include influences of environmental conditions The latest developments on the material behaviour of elastomers are collected in the present volume Constitutive Models for Rubber X is a comprehensive compilation of nearly all oral and poster contributions to the European Conference on Constitutive Models for Rubber Munich 28 31 August 2017 The 95 highly topical contributions reflect the state of the art in material modelling and testing of elastomers They cover the fields of material testing and processing filler reinforcement electromagnetic sensitive elastomers dynamic properties constitutive modelling micromechanics finite element implementation stress softening chemical ageing fatigue and durability In the area of rubbery materials and structures applied research will play an important role also in the coming decades Constitutive Models for Rubber X is of interest to developers and researchers involved in the rubber processing and CAE software industries as well as for academics in nearly all disciplines of engineering and material sciences 12 YEAR-WISE CTET Paper 2 (Mathematics & Science) Solved Papers (2011 - 2019) - 2nd English Edition Disha Experts,2019-09-06

**Imagined Liberation** Heribert Adam,Kogila Moodley,2013-12-01 On a spectrum of hostility towards irregular migrants South Africa ranks on top Germany in the middle and Canada at the bottom South African xenophobic violence by impoverished slum dwellers is directed against fellow Africans Why would a society that liberated itself in the name of human rights turn against people who escaped human rights violations or unlivable conditions at home What happened to the expected African solidarity Why do former victims become victimizers Imagined Liberation asks what xenophobic societies can learn from other immigrant societies which avoided the backlash against multiculturalism in Europe Graduate Programs in the Biological/Biomedical Sciences & Health-Related Medical Professions 2014 (Grad 3) Peterson's,2013-12-20 Peterson s Graduate Programs in the Biological Biomedical Sciences Health Related Medical Professions 2014 contains comprehensive profiles of nearly 6 800 graduate programs in disciplines such as allied health biological biomedical sciences biophysics cell molecular structural biology microbiological sciences neuroscience neurobiology nursing pharmacy pharmaceutical sciences physiology public health and more Up to date data collected through Peterson s Annual Survey of Graduate and Professional Institutions provides valuable information on degree offerings professional accreditation jointly offered degrees part time and evening weekend programs postbaccalaureate distance degrees faculty students requirements expenses financial support faculty research and unit head and application contact information There are helpful links to in depth descriptions about a specific graduate program or department faculty members and their research and more There are also valuable articles on financial assistance the graduate admissions process advice for international and minority students and facts about accreditation with a current list of accrediting agencies

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web an electromagnet is a coil of wires that becomes a magnet when electric current runs through it electromagnets only work when the electric current is turned on increasing the electric current or increasing the number of wire loops increases the strength of the electromagnet

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web magnetism and electromagnetism the basic ideas of magnetism interaction between magnets and magnetic objects and magnetic fields should have been covered at primary level and again at ks3 and so it would be hoped that students will be familiar with them although it is worth checking

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web nov 1 2015 the main difference between magnetism and electromagnetism is that the term magnetism encompasses only phenomena due to magnetic forces whereas electromagnetism encompasses phenomena due to both to magnetic and

electric forces in fact electric and magnetic forces are both manifestations of a single

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web electricity and magnetism are very closely related the study of both and how they are connected is called electromagnetism this page is just a brief introduction to electromagnetism and contains information you may find useful for  
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web lecture notes magnetism and electromagnetism magnetism known to the ancients lodestones were seen to attract iron unlike electricity magnets do not come in separate charges any magnetic magnetized object has a north and south pole if you break a magnet in half each piece will have a north and a south end

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web magnetism and electromagnetism general science magnetism and electromagnetism magnets some basic facts about magnets every magnet has two poles a north pole and a south pole these poles cannot exist independently i e there are no magnetic monopoles

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web the electromagnetic force is one of the four fundamental forces of nature it is the dominant force in the interactions of atoms and molecules electromagnetism can be thought of as a combination of electrostatics and magnetism two distinct but closely intertwined phenomena electromagnetic forces occur between any two charged particles

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web magnetism and electromagnetism magnetism is due to the magnetic fields around magnets the fields can be investigated by looking at the effects of the forces they exert on other magnets

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web sep 1 2023 electromagnetism science of charge and of the forces and fields associated with charge electricity and magnetism are two aspects of electromagnetism electric and magnetic forces can be detected in regions called electric and magnetic fields learn more about electromagnetism in this article

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web find out more about magnetic fields what is an electromagnet apart from the magnetic moments of the electrons the other thing that produces magnetic fields are electric charges this discovery back in the 1830s has been one of the most important in history as it created the link between magnetism and electricity

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web e magnetism is the class of physical attributes that occur through a magnetic field which allows objects to attract or repel each other because both electric currents and magnetic moments of elementary particles give rise to a magnetic field magnetism is one of two aspects of electromagnetism

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web aug 2 2023 fundamentals basic to magnetism are magnetic fields and their effects on matter as for instance the deflection of moving charges and torques on other magnetic objects evidence for the presence of a magnetic field is the magnetic force on charges moving in that field the force is at right angles to both the field and the velocity of the

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web the magnetic field force produced by an electromagnet called the magnetomotive force or mmf is proportional to the product multiplication of the current through the electromagnet and the number of complete coil turns formed by the wire

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web yes electromagnetism is one of the most common sources of power on the earth the earth is constructed with a north and south pole and a inner core made up of metallic composites presumably and largely iron the magnetic field around the earth is driven largely by this source of electromagnetism

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web magnetism and electromagnetism magnetism is due to the magnetic fields around magnets the fields can be investigated by looking at the effects of the forces they exert on other magnets

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web nov 14 2022 magnetism is the force exerted by magnets when they attract or repel each other magnetism is caused by the motion of electric charges every substance is made up of tiny units called atoms each atom has electrons particles that carry electric charges spinning like tops the electrons circle the nucleus or core of an atom their

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web dec 3 2019 magnetism is the force present in and between all objects that is produced by the motion of electrons and that results in the attraction and repulsion of different objects it is a noncontact force that affects every single different object in the world to a greater or less extent and that is the result of the movement of these

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web an electromagnet uses an electrical current to generate a magnetic field there are three ways to strengthen an electromagnet increasing current increasing the number of turns of the coil

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web electromagnetism the fundamental force responsible for electricity magnetism stable atoms and chemistry by richard webb sakkmasterke alamy when asking what electromagnetism one of four

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web jul 8 2021 differences the major differences between logical database design and physical database design are as follows that describes the data without regard to

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web based database model which clearly separate the physical and logical model relational database model put forward by e f codd in 1970s codd 1970 has a simple

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web dec 11 2018 a general understanding to the three models is that business analyst uses conceptual and logical model for modeling the data required and produced by system

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web a simple way to think of these database modeling types is this conceptual database modeling is data modeling done at a very high level by project stakeholders and

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web jun 3 2023 data modeling can be categorized into three primary types conceptual logical and physical each type of data model serves a distinct purpose and provides a

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web the physical data model focuses on the actual implementation of the logical data model in a specific database management system it takes into account the technical

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web oct 17 2023 when to use logical and physical data models proper database design and management requires both logical and physical data modeling however data

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the vertabelo database modeler has features that allow us to define our database structure and then implement it in a rdbms relatively easily 1 vertabelo see more

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now that you know the difference between conceptual logical and physical data models and how to use the vertabelo database modelerto create them you see more

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web may 24 2019 conceptual logical and physical model or erd are three different ways of modeling data in a domain while they all contain entities and relationships they differ in

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web sep 18 2023 physical database design is the most detailed and technical level of the database design process at this stage designers make decisions about how the

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data models evolve from conceptual i e a quick high level view of the business requirements to logical where the entities involved are expanded and include more detail and finally the physical data model which can be implemented with a specific database provider like oracle sql server or mysql see more

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