

## GRADE 10 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

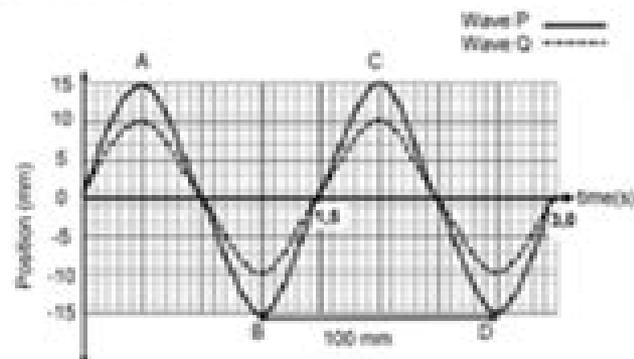
Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.5) on your folio paper. Example 1.6. D.

- 1.1 A positively charged object has:
- Excess electrons
  - A deficiency of electrons
  - An excess of protons
  - A deficiency of protons
- 1.2 Which one of the following types of electromagnetic waves has the **LONGEST** wavelength?
- Gamma rays
  - Ultraviolet
  - Micro waves
  - Radio waves
- 1.3 In which **ONE** of the following do sound waves travel the **FASTEST**?
- Vacuum
  - Water
  - Air
  - Steel
- 1.4 The SI unit for charge is the ...
- Coulomb
  - Volt
  - Ampere
  - Ohm
- 1.5 The relationship between voltage and work done is:
- Current
  - Charge transferred
  - Resistance of the circuit
  - Intensity of the circuit

[10]

### QUESTION 2

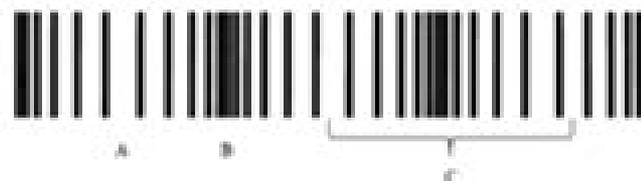
Below is a representation of two waves consisting of continuous pulses. Study it carefully and answer the questions that follow.



- 2.1 Define a pulse. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE** or **LONGITUDINAL**. (2)
- 2.3 Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4 For wave Q:
- What is the magnitude of its wavelength in metres? (1)
  - What is the frequency of the wave? (1)
  - Calculate the wave speed. (2)
- 2.5 If the waves were sent towards each other and allowed to collide:
- What would be the amplitude of wave P? (2)
  - What would be the amplitude of wave Q? (2)
- [16]

### QUESTION 3

- 3.1 The diagram below shows different points on a longitudinal wave.



- 3.1.1 Point A is a ... (2)

(2)

# Grade 1june Physical Science Question Paper 2014

**Zhe Xu**



## **Grade 1 June Physical Science Question Paper 2014:**

Future Information Engineering and Manufacturing Science Dawei Zheng, 2015-02-25 The 2014 International Conference on Future Information Engineering and Manufacturing Science FIEMS 2014 was held June 26 27 in Beijing China The objective of FIEMS 2014 was to provide a platform for researchers engineers academics as well as industry professionals from all over the world to present their research results and development acti

Information Engineering and Education Science Dawei Zheng, 2015-04-30 This proceedings volume contains selected papers presented at the 2014 International Conference on Information Engineering and Education Science ICIEES 2014 held June 12 13 in Hong Kong China The objective of ICIEES 2014 was to provide a platform for researchers engineers academics as well as industry professionals from all over the world to

Bituminous Mixtures and Pavements VI A. Nikolaidis, 2015-07-28 Bituminous Mixtures and Pavements contains 113 accepted papers from the 6th International Conference Bituminous Mixtures and Pavements 6th ICONFBMP Thessaloniki Greece 10 12 June 2015 The 6th ICONFBMP is organized every four years by the Highway Engineering Laboratory of the Aristotle University of Thessaloniki Greece in conjunction with

**Organization and Administration of Physical Education** Jayne D. Greenberg, Judy L. LoBianco, 2015-03-11 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 PE standards and the latest research throughout other enhancements to this edition include the following An expanded technology chapter that addresses equity and the digital divide remote learning virtual and augmented reality and artificial intelligence A more comprehensive chapter on teacher and program evaluation A new chapter on social emotional learning SEL with connections between content pedagogy and practices A new chapter on diversity equity and inclusion that provides culturally responsive teaching approaches to elevate the participation of underrepresented teachers and students New content for physical education department chairpersons The result is an essential manual for future and current administrators in PE leadership positions who want to acquire new skills in the primary six areas of responsibility Part I explores leadership and management styles and presents practical theories of motivation development and planning for the essential components of a quality PE program In part II readers examine various curriculum instruction and assessment models and get guidance on planning special events Part III helps administrators plan new school facilities or renovate existing ones and it presents contemporary

concepts in universal design and sustainable environmental design It also offers ideas on how to incorporate technology including developing online PE courses Part IV explores communication legal issues and human resources so administrators can learn how to advocate for their programs Part V explains the fiscal responsibilities inherent in administrative positions and shows how administrators can secure independent funding offering many examples of grants and fundraising opportunities with sample grant applications Part VI new to this edition explores the integration of content and pedagogy with SEL practices It also offers legal and practical strategies to enhance the involvement of those who are underrepresented in PE Each chapter also includes sidebars from professionals who share tips and insights on successful program implementations To further enhance practical application readers have online access to downloadable forms checklists and other supportive materials Published with SHAPE America this text offers the solid foundational theory and practices needed for today s challenges in PE administration Note A code for accessing HKPropel is included with this ebook [Reducing Fuel Consumption and Greenhouse Gas Emissions of Medium- and Heavy-Duty Vehicles, Phase Two](#) National Academies of Sciences, Engineering, and Medicine,Transportation Research Board,Division on Engineering and Physical Sciences,Board on Energy and Environmental Systems,Committee on Assessment of Technologies and Approaches for Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles, Phase Two,2020-06-15 Medium and heavy duty trucks motor coaches and transit buses collectively medium and heavy duty vehicles or MHDVs are used in every sector of the economy The fuel consumption and greenhouse gas emissions of MHDVs have become a focus of legislative and regulatory action in the past few years This study is a follow on to the National Research Council s 2010 report Technologies and Approaches to Reducing the Fuel Consumption of Medium and Heavy Duty Vehicles That report provided a series of findings and recommendations on the development of regulations for reducing fuel consumption of MHDVs On September 15 2011 NHTSA and EPA finalized joint Phase I rules to establish a comprehensive Heavy Duty National Program to reduce greenhouse gas emissions and fuel consumption for on road medium and heavy duty vehicles As NHTSA and EPA began working on a second round of standards the National Academies issued another report Reducing the Fuel Consumption and Greenhouse Gas Emissions of Medium and Heavy Duty Vehicles Phase Two First Report providing recommendations for the Phase II standards This third and final report focuses on a possible third phase of regulations to be promulgated by these agencies in the next decade **Ssc**

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**How We Teach Science** John L. Rudolph, 2019-06-01 A former Wisconsin high school science teacher makes the case that how and why we teach science matters especially now that its legitimacy is under attack Why teach science The answer to that question will determine how it is taught Yet despite the enduring belief in this country that science should be taught there has been no enduring consensus about how or why This is especially true when it comes to teaching scientific process Nearly all of the basic knowledge we have about the world is rock solid The science we teach in high schools in particular laws of motion the structure of the atom cell division DNA replication the universal speed limit of light is accepted as the way nature works Everyone also agrees that students and the public more generally should understand the methods used to gain this knowledge But what exactly is the scientific method Ever since the late 1800s scientists and science educators have grappled with that question Through the years they ve advanced an assortment of strategies ranging from the laboratory method to the five step method to science as inquiry to no method at all How We Teach Science reveals that each strategy was influenced by the intellectual cultural and political circumstances of the time In some eras learning about experimentation and scientific inquiry was seen to contribute to an individual s intellectual and moral improvement while in others it was viewed as a way to minimize public interference in institutional science John Rudolph shows that how we think about and

teach science will either sustain or thwart future innovation and ultimately determine how science is perceived and received by the public Interest in Mathematics and Science Learning Ann Renninger, Martina Nieswandt, Suzanne Hidi, 2015-04-19 Interest in Mathematics and Science Learning edited by K Ann Renninger Martin Nieswandt and Suzanne Hidi is the first volume to assemble findings on the role of interest in mathematics and science learning As the contributors illuminate across the volume s 22 chapters interest provides a critical bridge between cognition and affect in learning and development This volume will be useful to educators researchers and policy makers especially those whose focus is mathematics science and technology education **The Complete Book of Colleges, 2017 Edition** Princeton Review, 2016-07 The MEGA GUIDE to 1 355 COLLEGES AND UNIVERSITIES No one knows colleges better than The Princeton Review Inside The Complete Book of Colleges 2017 Edition you ll find meticulously researched information that will help you narrow the search for the best college for you Each of the 1 355 user friendly profiles answers your questions including How much are tuition and other student fees and costs What types of financial aid are available and when are the applications due What do admissions officers most look for in test scores and recommendations Which majors are the most popular and have the highest enrollment What is the housing like and how accessible is technology on campus What are the key campus organizations athletics and student activities How selective is the school Plus Indexes based on cost selectivity and size that will help you narrow your search Get a leg up on your college search with this easy to use comprehensive and savvy guidebook from the experts at The Princeton Review **The Growing Gap in Life Expectancy by Income** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Division of Behavioral and Social Sciences and Education, Committee on Population, Committee on the Long-Run Macroeconomic Effects of the Aging U.S. Population--Phase II, 2015-09-17 The U S population is aging Social Security projections suggest that between 2013 and 2050 the population aged 65 and over will almost double from 45 million to 86 million One key driver of population aging is ongoing increases in life expectancy Average U S life expectancy was 67 years for males and 73 years for females five decades ago the averages are now 76 and 81 respectively It has long been the case that better educated higher income people enjoy longer life expectancies than less educated lower income people The causes include early life conditions behavioral factors such as nutrition exercise and smoking behaviors stress and access to health care services all of which can vary across education and income Our major entitlement programs Medicare Medicaid Social Security and Supplemental Security Income have come to deliver disproportionately larger lifetime benefits to higher income people because on average they are increasingly collecting those benefits over more years than others This report studies the impact the growing gap in life expectancy has on the present value of lifetime benefits that people with higher or lower earnings will receive from major entitlement programs The analysis presented in The Growing Gap in Life Expectancy by Income goes beyond an examination of the existing literature by providing the first comprehensive estimates of how lifetime

benefits are affected by the changing distribution of life expectancy The report also explores from a lifetime benefit perspective how the growing gap in longevity affects traditional policy analyses of reforms to the nation's leading entitlement programs This in depth analysis of the economic impacts of the longevity gap will inform debate and assist decision makers economists and researchers *Australian Education Index*, 1980 [The Shifting Global World of Youth and Education](#) Mabel Ann Brown, 2017-08-15 The Shifting Global World of Youth and Education explores how increasing migration and population changes are having an unprecedented impact on global education Given that the number of children of migrant background is growing internationally there is a need for increasing awareness of the educational attainment and cultural integration of this population group This book presents international perspectives on migration and youth and analyses what kinds of effects such demographic changes are having on educational systems around the world The chapters in this volume provide a fascinating insight into how countries around the world are dealing with loss or growth in their young population as well as changes to their education systems Written by specialist academics from the relevant country the book covers Cuba Lithuania the United Kingdom the United States Finland Greece Germany Austria Hungary Latvia China Australia India Italy and Poland Taking into consideration the countries social and political context the chapters discuss educational issues surrounding curriculum assessment and the opportunities available for the support of young people Conclusions are drawn about what could be done in the future for the benefit of both the migrant and the existing populations The Shifting Global World of Youth and Education will be of great interest to academics researchers and postgraduate students in the disciplines of education sociology political sciences and social work The book will also give secondary teachers teaching assistants social workers and youth workers the opportunity to reflect on their role within a national and international context **Poison Ivy** Evan Mandery, 2025-03-18 Hailed as a staggering portrait of inequality in America Philip Dray Poison Ivy tells the bigger seedier story of how elite colleges create paths to admission available only to the wealthy despite rhetoric to the contrary In a lively and trenchant Washington Monthly account Evan Mandery a Harvard graduate and current professor at a public college that serves low and middle income students reveals how tacit agreements between exclusive Ivy plus schools and white affluent suburbs create widespread de facto segregation And as a college degree continues to be the surest route to upward mobility the inequality bred in our broken higher education system is now a principal driver of skyrocketing income inequality Mandery contrasts the lip service paid to opportunity by so many elite colleges and universities with schools that actually walk the walk Now in an accessible paperback format Poison Ivy is a no holds barred takedown Forbes that synthesizes fascinating insider information on everything from how students are evaluated unfair tax breaks and questionable fundraising practices to suburban rituals testing tutoring tuition schemes and more This bold provocative indictment of America's elite colleges shows us exactly what's at stake and what will be possible if we muster the collective will to transform it *Report Series: Committee on Astronomy and Astrophysics* National Academies of Sciences,

Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Space Studies Board, Committee on Astronomy and Astrophysics, 2017-06-08 The 2010 astronomy and astrophysics decadal survey New Worlds New Horizons in Astronomy and Astrophysics laid out an exciting portfolio of recommended activities to guide the agencies research programs over the period 2012-2021 The newly constituted Committee on Astronomy and Astrophysics CAA is tasked with monitoring the progress of the survey's recommended priorities The CAA met in conjunction with Space Science Week 2017 in Washington D C on March 28-30 2017 This was the first meeting at which the CAA could produce a report and in advance of that meeting the CAA received a question from NASA about an upcoming Small Explorer SMEX mission call This report addresses whether there may or may not be sufficient compelling science motivations for a SMEX sized mission to justify a SMEX Announcement of Opportunity AO in 2018 or 2019 as is currently planned Breaking Point Rebecca Schwartz Greene, 2023-01-03 WINNER SOCIETY FOR MILITARY HISTORY DISTINGUISHED BOOK AWARDS FIRST BOOK This book informs the public for the first time about the impact of American psychiatry on soldiers during World War II Breaking Point is the first in depth history of American psychiatry in World War II Drawn from unpublished primary documents oral histories and the author's personal interviews and correspondence over years with key psychiatric and military policymakers it begins with Franklin Roosevelt's endorsement of a universal Selective Service psychiatric examination followed by Army and Navy pre and post induction examinations Ultimately 2.5 million men and women were rejected or discharged from military service on neuropsychiatric grounds Never before or since has the United States engaged in such a program In designing Selective Service Medical Circular No 1 psychiatrist Harry Stack Sullivan assumed psychiatrists could predict who might break down or falter in military service or even in civilian life thereafter While many American and European psychiatrists questioned this belief and huge numbers of American psychiatric casualties soon raised questions about screening's validity psychiatric and military leaders persisted in 1942 and 1943 in endorsing ever tougher screening and little else Soon families complained of fathers and teens being drafted instead of being identified as psychiatric 4Fs and Blacks and Native Americans among others complained of bias A frustrated General George S Patton famously slapped two malingering neuropsychiatric patients in Sicily a sentiment shared by Marshall and Eisenhower though they favored a tamer style Yet psychiatric rejections evacuations and discharges mounted While psychiatrist Roy Grinker and a few others treated soldiers close to the front in Tunisia in early 1943 this was the exception But as demand for manpower soared and psychiatrists finally went to the field and saw that combat itself not predisposition precipitated breakdown leading military psychiatrists switched their emphasis from screening to prevention and treatment But this switch was too little too late and slowed by a year long series of Inspector General investigations even while numbers of psychiatric casualties soared Ironically despite and even partly because of psychiatrists wartime performance plus the emotional toll of war postwar America soon witnessed a dramatic growth in numbers popularity and influence of the profession culminating in

the National Mental Health Act 1946 But veterans with PTSD not recognized until 1980 were largely neglected

**Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles** National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles, Phase 2, 2015-09-28 The light duty vehicle fleet is expected to undergo substantial technological changes over the next several decades New powertrain designs alternative fuels advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards By the end of the next decade cars and light duty trucks will be more fuel efficient weigh less emit less air pollutants have more safety features and will be more expensive to purchase relative to current vehicles Though the gasoline powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030 such vehicles will be equipped with advanced technologies materials electronics and controls and aerodynamics And by 2030 the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation including autonomous vehicles will be well underway What are these new technologies how will they work and will some technologies be more effective than others Written to inform The United States Department of Transportation s National Highway Traffic Safety Administration NHTSA and Environmental Protection Agency EPA Corporate Average Fuel Economy CAFE and greenhouse gas GHG emission standards this new report from the National Research Council is a technical evaluation of costs benefits and implementation issues of fuel reduction technologies for next generation light duty vehicles Cost Effectiveness and Deployment of Fuel Economy Technologies for Light Duty Vehicles estimates the cost potential efficiency improvements and barriers to commercial deployment of technologies that might be employed from 2020 to 2030 This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017 2025 CAFE standards

**Future of STEM education: Multiple perspectives from researchers** Subramaniam Ramanathan, Ida Ah Chee Mok, 2023-03-28

**Creating Stellar Lessons with Digital Tools** Kenneth J. Luterbach, 2022-05-12 Creating Stellar Lessons with Digital Tools prepares teachers in training and in service teachers to use technologies for design and development activities with middle and high school students While software open resources handheld devices and other tools hold great potential to enhance learning experiences teachers themselves must model technology use in ways that inspire students to become producers and leaders rather than consumers and followers Featuring concrete applications in social studies English mathematics and science scenarios this book provides pre service and in service teachers with seven paths to creatively integrate and innovate with computational thinking datasets maker spaces visual design media editing and other approaches

**Resources in Education**, 1985 *Teaching Mathematics Creatively* Linda Pound, Trisha Lee, 2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an

innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom

## **Grade 1june Physical Science Question Paper 2014** Book Review: Unveiling the Power of Words

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web the vector equation defines the placement of the line or a plane in the three dimensional framework the vector equation of a line is  $r = \lambda b$  and the vector equation of a plane is  $r \cdot n = d$  let us check the vector equations and how to find the vector equations of a line or a plane with the help of examples faqs 1 what are vector equations

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web what is a vector in math a1 we can define a vector as an object that has both a direction and a magnitude geometrically we can represent a vector as a directed line segment whose length is the magnitude of the vector and with an arrow

indicating the direction moreover two examples of vectors are those that characterize force and velocity

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web the generalization of the number zero to vector algebra is called the null vector denoted by  $\mathbf{0}$  all components of the null vector are zero  $0\mathbf{i} + 0\mathbf{j} + 0\mathbf{k}$  so the null vector has no length and no direction two vectors  $\mathbf{a}$  and  $\mathbf{b}$  are equal vectors if and only if their difference is the null vector

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web sep 17 2022 figure 2 2 2 this is a picture of an inconsistent linear system the vector  $\mathbf{w}$  on the right hand side of the equation  $x_1 \mathbf{v}_1 + x_2 \mathbf{v}_2 = \mathbf{w}$  is not in the span of  $\mathbf{v}_1, \mathbf{v}_2$  convince yourself of this by trying to solve the equation  $x_1 \mathbf{v}_1 + x_2 \mathbf{v}_2 = \mathbf{w}$  by moving the sliders and by row reduction compare this with figure 2 2 1

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shows the direction and its length shows the magnitude the arrow which indicates the vector has an arrowhead and its opposite end is the tail begin array l text it is denoted as  $\vec{v}$  end array

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web a vector is a quantity or phenomenon that has two independent properties magnitude and direction the term also denotes the mathematical or geometrical representation of such a quantity examples of vectors in nature are velocity momentum force electromagnetic fields and weight

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web let us add the two vectors head to tail first convert from polar to cartesian to 2 decimals sam s vector  $x = r \cos \theta$   $y = r \sin \theta$   $r = \sqrt{x^2 + y^2}$   $\theta = \tan^{-1} \frac{y}{x}$  alex s vector  $x = r \cos \theta$   $y = r \sin \theta$

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web the direction of a vector  $\vec{v}$  is the unit vector  $\hat{u}$  parallel to  $\vec{v}$   $\hat{u} = \frac{\vec{v}}{|\vec{v}|}$  given two points p c addition the sum  $\vec{q}$  the vector from p to q is denoted  $\vec{pq}$  or resultant  $\vec{v} + \vec{w}$  of two vectors  $\vec{v}$  and  $\vec{w}$  is the diagonal of the parallelogram with sides  $\vec{v}$   $\vec{w}$

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