

**NATIONAL
 SENIOR CERTIFICATE**

GRADE 12

SEPTEMBER 2021

PHYSICAL SCIENCES P1

MARKS: 150

TIME: 3 hours

The question paper consists of 15 pages, including 3 data sheets

QUESTION 10: POTENTIAL ENERGIES

10. The kinetic energy of a car moving at velocity v is K . The velocity of the car changes to $3v$. What is the new kinetic energy of the car?

- A. $18K$
- B. $10K$
- C. $2K$
- D. $4K$

(2)

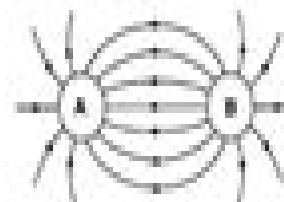
- 10.1 A sound source approaches a stationary observer at constant velocity.

Which ONE of the following describes how the observed frequency and wavelength differ from that of the sound source?

	Observed wavelength	Observed frequency
A	Greater than	Greater than
B	Less than	Less than
C	Less than	Greater than
D	Greater than	Less than

(2)

- 10.2 The electric field pattern between two charged spheres, A and B, is shown below.



Which ONE of the following statements regarding the charge on spheres A and B is CORRECT?

- A. Sphere A is negatively charged, and sphere B is positively charged.
- B. Sphere A is positively charged, and sphere B is negatively charged.
- C. Spheres A and B are both positively charged.
- D. Spheres A and B are both negatively charged.

(2)

Memo Paper Physical Science Grade 12 Sep 2014

Xiang Xie



Memo Paper Physical Science Grade 12 Sep 2014:

Resources in Education ,1969-07 **Research in Education** ,1969-05 Behavioural Sports Economics Hannah Josepha Rachel Altman,Morris Altman,Benno Torgler,2021-12-20 Economists have entered into the realm of sports to provide what they believe to be more cogent explanations for sport related behaviour and to suggest ways in which incentives can improve sports outcomes But prices and income the traditional workhorses of conventional economics can only provide partial explanations and understandings Drawing on a bounded rationality approach to behavioural economics this book demonstrates the analytical insights to be gained by supplementing the conventional economics toolbox with psychological cognitive sociological and institutional factors The international cast list of contributors cover a wide range of sports topics on which a behavioural approach can reveal new insights These include preferences managerial efficiency choking doping favouritism athlete well being and spectator behaviour Throughout the book there is an emphasis on the cognitive limits to smart decision making as well as the critical role played by the decision making environment This volume demonstrates that adopting a bounded rationality approach complimented with other behaviouralist approaches helps to better explain sport related behavioural sub optimal behavioural and market failures It also provides insights that could be used to improve sports outcomes and the well being of those involved in sports and to better configure policy to enhance sports performance This groundbreaking book will be an indispensable reference to students and scholars of sports economics sports management and sports science **Environmental and occupational exposure and chronic diseases** Raquel Alarcon Rodriguez,Sara Rojas ,Jessica García González,Mar Requena Mullor,2025-03-27 Studying the impacts of risk factors both environmental and occupational could lead to a better understanding of the adverse effects on the health of the population as well as their medium and long term consequences Identification of at risk populations early diagnosis and prognosis prediction play major roles in preventing or reducing the burden of chronic illness Addressing chronic disease is a major challenge for healthcare systems worldwide requiring a long period of supervision observation care and or rehabilitation The health effects caused by occupational exposures are a cause for concern worldwide so it is important to analyse the relationships between work and health identifying the risk factors that may cause impact to workers health and wellbeing **Resources in Education** ,1990 **Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971** New York Public Library. Research Libraries,1979 *U S NEWS ULTIMATE COLLEGE DIRECTORY 2004* MCGRATH ANNE (EDITOR),2003 **Author Index to Psychological Index ... and Psychological Abstracts ...** ,1960

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Memo Paper Physical Science Grade 12 Sep 2014**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Memo Paper Physical Science Grade 12 Sep 2014

1. Understanding the eBook Memo Paper Physical Science Grade 12 Sep 2014
 - The Rise of Digital Reading Memo Paper Physical Science Grade 12 Sep 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Memo Paper Physical Science Grade 12 Sep 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Memo Paper Physical Science Grade 12 Sep 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Memo Paper Physical Science Grade 12 Sep 2014
 - Personalized Recommendations
 - Memo Paper Physical Science Grade 12 Sep 2014 User Reviews and Ratings

- Memo Paper Physical Science Grade 12 Sep 2014 and Bestseller Lists
- 5. Accessing Memo Paper Physical Science Grade 12 Sep 2014 Free and Paid eBooks
 - Memo Paper Physical Science Grade 12 Sep 2014 Public Domain eBooks
 - Memo Paper Physical Science Grade 12 Sep 2014 eBook Subscription Services
 - Memo Paper Physical Science Grade 12 Sep 2014 Budget-Friendly Options
- 6. Navigating Memo Paper Physical Science Grade 12 Sep 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Memo Paper Physical Science Grade 12 Sep 2014 Compatibility with Devices
 - Memo Paper Physical Science Grade 12 Sep 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Memo Paper Physical Science Grade 12 Sep 2014
 - Highlighting and Note-Taking Memo Paper Physical Science Grade 12 Sep 2014
 - Interactive Elements Memo Paper Physical Science Grade 12 Sep 2014
- 8. Staying Engaged with Memo Paper Physical Science Grade 12 Sep 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Memo Paper Physical Science Grade 12 Sep 2014
- 9. Balancing eBooks and Physical Books Memo Paper Physical Science Grade 12 Sep 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Memo Paper Physical Science Grade 12 Sep 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Memo Paper Physical Science Grade 12 Sep 2014
 - Setting Reading Goals Memo Paper Physical Science Grade 12 Sep 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Memo Paper Physical Science Grade 12 Sep 2014
 - Fact-Checking eBook Content of Memo Paper Physical Science Grade 12 Sep 2014
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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