



basic education

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Basic Education  
REPUBLIC OF SOUTH AFRICA

# FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

This question paper consists of 18 pages and 3 data sheets.

(QUESTION 6 (Start on a new page.)

A 12 kg block is initially at rest at point A at the bottom of a ROUGH inclined plane. The block is pulled up the incline by a constant force  $F$  acting parallel to the incline. The block reaches point B, which is at a vertical height of 4.0 m above the horizontal, with a speed of 2.0 m/s. See the diagram below.



- 6.1 Define the term non-conservative force.
- 6.2 Draw a labelled free-body diagram for the block when it is pulled up the incline.
- 6.3 Calculate the total work done on the block by the NON-CONSERVATIVE forces when the block moves from point A to point B. (5)

The same constant force  $F$  now moves the block at a CONSTANT VELOCITY across a rough horizontal surface from point B to point C, as shown below. Force  $F$  acts parallel to the horizontal surface.



The magnitude of the constant frictional force acting on the block while moving from point B to point C is 40 N, 40% less than the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

- 6.4 Calculate the distance from point A to point B. (5)

# Physical Science Memorandum November 2013

**Cinnamon P. Carlarne, Kevin R.  
Gray, Richard Tarasofsky**



## **Physical Science Memorandum November 2013:**

Breakout Newt Gingrich, 2013-11-04 It is not between the Left and the Right but between the past and the future America is on the edge of a breakout In fact we are poised for one of the most spectacular leaps in human well being in history Pioneers of the future innovators and entrepreneurs are achieving breakthroughs in medicine transportation energy education and other fields that will make the world a dramatically different and better place Unless the prison guards of the past stop them Every American must choose a side Will you be a champion of the future or a prisoner of the past Every potential breakthrough has to get past a host of individuals and institutions whose power and comfort depend on the status quo These prison guards of the past will strangle every innovation that threatens to change the way things have always been done if we let them

**Navigating the Clean Water Act** United States. Congress. House. Committee on Science, Space, and Technology (2011), United States. Congress. House. Committee on Science, Space, and Technology (2011- ), 2015 **A History of Scientific Journals** Aileen Fyfe, Noah Moxham, Julie McDougall-Waters, Camilla Mørk Røstvik, 2022-10-03 Modern scientific research has changed so much since Isaac Newton's day it is more professional collaborative and international with more complicated equipment and a more diverse community of researchers Yet the use of scientific journals to report share and store results is a thread that runs through the history of science from Newton's day to ours Scientific journals are now central to academic research and careers Their editorial and peer review processes act as a check on new claims and findings and researchers build their careers on the list of journal articles they have published The journal that reported Newton's optical experiments still exists First published in 1665 and now fully digital the Philosophical Transactions has carried papers by Charles Darwin Dorothy Hodgkin and Stephen Hawking It is now one of eleven journals published by the Royal Society of London Unrivalled insights from the Royal Society's comprehensive archives have enabled the authors to investigate more than 350 years of scientific journal publishing The editorial management business practices and financial difficulties of the Philosophical Transactions and its sibling Proceedings reveal the meaning and purpose of journals in a changing scientific community At a time when we are surrounded by calls to reform the academic publishing system it has never been more urgent that we understand its history

Bulk Collection of Signals Intelligence National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Responding to Section 5(d) of Presidential Policy Directive 28: The Feasibility of Software to Provide Alternatives to Bulk Signals Intelligence Collection, 2015-03-24 The Bulk Collection of Signals Intelligence Technical Options study is a result of an activity called for in Presidential Policy Directive 28 PPD 28 issued by President Obama in January 2014 to evaluate U S signals intelligence practices The directive instructed the Office of the Director of National Intelligence ODNI to produce a report within one year assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection ODNI asked the National Research Council NRC the

operating arm of the National Academy of Sciences and National Academy of Engineering to conduct a study which began in June 2014 to assist in preparing a response to the President. Over the ensuing months a committee of experts appointed by the Research Council produced the report *Crime, Violence, and Global Warming* John Crank, Linda Jacoby, 2015-05-20. *Crime, Violence, and Global Warming* introduces the many connections between climate change and criminal activity. Conflict over natural resources can escalate to state and non state actors resulting in wars, asymmetrical warfare and terrorism. Crank and Jacoby apply criminological theory to each aspect of this complicated web helping readers to evaluate conflicting claims about global warming and to analyze evidence of the current and potential impact of climate change on conflict and crime. Beginning with an overview of the science of global warming the authors move on to the links between climate change, scarce resources and crime. Their approach takes in the full scope of causes and consequences present and future in the United States and throughout the world. The book concludes by looking ahead at the problem of forecasting future security implications if global warming continues or accelerates. This fresh approach to the criminology of climate change challenges readers to examine all sides of this controversial question and to formulate their own analysis of our planet's future.

**Force Multiplying Technologies for Logistics Support to Military Operations** National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Force Multiplying Technologies for Logistics Support to Military Operations, 2014-12-15. The mission of the United States Army is to fight and win our nation's wars by providing prompt, sustained land dominance across the full range of military operations and spectrum of conflict in support of combatant commanders. Accomplishing this mission rests on the ability of the Army to equip and move its forces to the battle and sustain them while they are engaged. Logistics provides the backbone for Army combat operations. Without fuel, ammunition, rations and other supplies the Army would grind to a halt. The U.S. military must be prepared to fight anywhere on the globe and in an era of coalition warfare to logistically support its allies. While aircraft can move large amounts of supplies, the vast majority must be carried on ocean going vessels and unloaded at ports that may be at a great distance from the battlefield. As the wars in Afghanistan and Iraq have shown, the costs of conveying vast quantities of supplies is tallied not only in economic terms but also in terms of lives lost in the movement of the materiel. As the ability of potential enemies to interdict movement to the battlefield and interdict movements in the battlespace increases, the challenge of logistics grows even larger. No matter how the nature of battle develops, logistics will remain a key factor. *Force Multiplying Technologies for Logistics Support to Military Operations* explores Army logistics in a global complex environment that includes the increasing use of antiaccess and area denial tactics and technologies by potential adversaries. This report describes new technologies and systems that would reduce the demand for logistics and meet the demand at the point of need, make maintenance more efficient, improve inter and intratheater mobility and improve near real time in transit visibility. *Force Multiplying Technologies* also explores options for the Army to operate with the other services and improve its support of Special

Operations Forces This report provides a logistics centric research and development investment strategy and illustrative examples of how improved logistics could look in the future **Handbook of Obesity - Volume 2** George Bray, Claude Bouchard, 2014-02-20 Several major developments have occurred since the last edition of Handbook of Obesity Clinical Applications including new clinical trials discoveries related to drug use and greater understanding of the benefits of weight loss in obese patients Now in its fourth edition this volume continues to offer unparalleled depth and breadth of coverage

*Climate Change and the Coast* Bruce Glavovic, Mick Kelly, Robert Kay, Ailbhe Travers, 2014-12-04 Coastal communities are at the frontline of a changing climate Escalating problems created by sea level rise a greater number of severe coastal storms and other repercussions of climate change will exacerbate already pervasive impacts resulting from rapid coastal population growth and intensification of development To prosper in the coming decade

**The Secure and the Dispossessed** Nick Buxton, Ben Hayes, 2015-11-20 While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants The Secure and the Dispossessed looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures

**The Oxford Handbook of International Climate Change Law** Cinnamon P. Carlarne, Kevin R. Gray, Richard Tarasofsky, 2016-03-24 Climate change presents one of the greatest challenges of our time and has become one of the defining issues of the twenty first century The radical changes which both developed and developing countries will need to make in economic and in legal terms to respond to climate change are unprecedented International law including treaty regimes institutions and customary international law needs to address the myriad challenges and consequences of climate change including variations in the weather patterns sea level rise and the resulting migration of peoples The Oxford Handbook of International Climate Change Law provides an unprecedented and authoritative overview of all aspects of international climate change law as it currently stands with guidance for how it should develop in the future Over forty leading scholars and practitioners set out a comprehensive understanding of the legal issues that surround this vitally important but still emerging area of international law This book addresses the major legal dimensions of the problems caused by climate change not only in the content and nature of the international legal frameworks which need implementation at the national level but also the development of carbon trading systems as a means of reducing the costs of meeting emission reduction targets After an introduction to the field the Handbook assesses the

relevant institutions the key applicable principles of international law the international mitigation regime and its consequences and climate change litigation before providing perspectives focused upon specific countries or regions The Handbook will be an invaluable resource for scholars students and practitioners of international climate change law It provides readers with diverse perspectives bringing together interpretations from different disciplines countries and cultures

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## **Table of Contents Physical Science Memorandum November 2013**

1. Understanding the eBook Physical Science Memorandum November 2013
  - The Rise of Digital Reading Physical Science Memorandum November 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Memorandum November 2013
  - 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 Physical Science Memorandum November 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Memorandum November 2013
  - Personalized Recommendations
  - Physical Science Memorandum November 2013 User Reviews and Ratings
  - Physical Science Memorandum November 2013 and Bestseller Lists
5. Accessing Physical Science Memorandum November 2013 Free and Paid eBooks

- Physical Science Memorandum November 2013 Public Domain eBooks
- Physical Science Memorandum November 2013 eBook Subscription Services
- Physical Science Memorandum November 2013 Budget-Friendly Options
- 6. Navigating Physical Science Memorandum November 2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Memorandum November 2013 Compatibility with Devices
  - Physical Science Memorandum November 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Memorandum November 2013
  - Highlighting and Note-Taking Physical Science Memorandum November 2013
  - Interactive Elements Physical Science Memorandum November 2013
- 8. Staying Engaged with Physical Science Memorandum November 2013
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Memorandum November 2013
- 9. Balancing eBooks and Physical Books Physical Science Memorandum November 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Memorandum November 2013
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Memorandum November 2013
  - Setting Reading Goals Physical Science Memorandum November 2013
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Memorandum November 2013
  - Fact-Checking eBook Content of Physical Science Memorandum November 2013
  - 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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