

D 14%

1.5 There are ... atoms of hydrogen in 36g of H_2O .

- A 2.4×10^{24}
- B 6×10^{23}
- C 4.8×10^{24}
- D 6×10^{24}

[10]

QUESTION 2

An aeroplane flew in the following manner: 200km west, 150km south and then 180km east.

- 2.1 ~~Draw a vector diagram to show the displacement of the aeroplane.~~ (3)
- 2.2 ~~Calculate the magnitude of the displacement of the aeroplane.~~ (3)
- 2.3 ~~What is the final velocity of the aeroplane with respect to the starting position?~~ (2)
- 2.4 If the plane took 55min to complete this journey, determine the average speed it flew by. (3)

[11]

QUESTION 3

A car drips oil. The driver pulls out of his driveway and leaves a set of oil drops on the road as he travels. The oil drops are dropped every half a second. The distance of the drops can be recorded as follows:

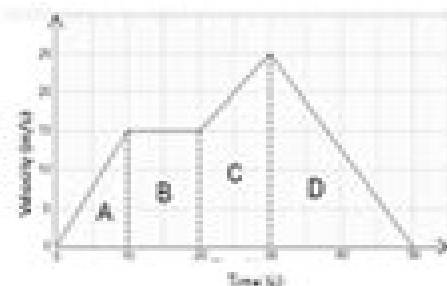
Drop point	Distance from starting point
A	0m
B	1m
C	4m
D	9m
E	16m
F	25m

- 3.1 Use the graph to calculate the acceleration of the car. (5)
- 3.2 ~~Calculate the average velocity of the car between points D and E.~~ (4)
- 3.3 Calculate the magnitude of the velocity at point E. (3)
- 3.4 ~~Calculate the acceleration of the car at point F.~~ (4)

[10]

QUESTION 4

The velocity vs. time graph below illustrates a part of a mom's journey, dropping her kids off at school.



NO EQUATIONS OF MOTION SHOULD BE USED IN ANSWERING THE FOLLOWING QUESTIONS.

- 4.1 ~~Calculate the acceleration of the vehicle between 0s and 10s.~~ (3)
- 4.2 ~~What is the speed of the vehicle at 20s?~~ (1)
- 4.2 Use the graph to calculate the acceleration at the following intervals:
 - 4.2.1 ~~Between 0s and 10s.~~ (2)
 - 4.2.2 ~~Between 10s and 20s.~~ (2)
- 4.3 Use the graph to calculate the total displacement of the vehicle. (10)

[10]

QUESTION 5

A vehicle starts from rest and accelerates in a southerly direction at $3m/s^2$.

- 5.1 ~~Calculate the distance travelled by the vehicle after 5s.~~ (2)
- 5.2 ~~Calculate the velocity of the vehicle after 5s.~~ (3)
- 5.3 ~~Calculate the distance travelled by the vehicle after 5s.~~ (3)
- 5.4 ~~Calculate the average velocity of the vehicle.~~ (3)

[11]

Physical Science 2013 September Exam

NewPath Learning

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the NewPath Learning logo.

Physical Science 2013 September Exam:

Physical Science Under Microgravity: Experiments on Board the SJ-10 Recoverable Satellite Wenrui Hu, Qi Kang, 2019-10-16 This book presents the physical science experiments in a space microgravity environment conducted on board the SJ 10 recoverable satellite which was launched on April 6th 2016 and recovered on April 18th 2016 The experiments described were selected from 100 proposals from various institutions in China and around the world and have never previously been conducted in the respective fields They involve fluid physics and materials science and primarily investigate the kinetic properties of matter in a space microgravity environment The book provides a comprehensive review of these experiments as well as the mission's execution data collection and scientific outcomes Work, Power & Simple Machines Science Learning Guide NewPath Learning, 2014-03-01 The Work Power Power Measuring Work Machines Mechanical Advantage Mechanical Efficiency Simple Machines 1 Simple Machines 2 and Simple Machines in the Body Aligned to Next Generation Science Standards NGSS and other state standards Educational Assessment Christine Harrison, Constant Leung, David Pepper, 2023-10-19 This book explores and builds on the extraordinary work of Professor Paul Black across assessment and pedagogy across the curriculum including STEM humanities and social science subjects This book explores the influence that Black has had within educational settings focusing on interpretations of the work and scholarship he has achieved across a range of settings and on the ways scholars who have worked with him or been influenced by his ideas have developed their research and teaching The contributions are presented under three thematic sections each of which reflects a set of shared educational concerns and values drawing on the natural and social sciences and developments in public policy These concerns and values with their emphasis on teacher assessment provide a basis for a strategic informed and coherent response to challenges in education such as the cancellation of public examinations in the face of the Covid 19 pandemic **Energy and Water Development Appropriations for 2015: Department of Energy: Secretary of Energy** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2014 **Reprocessing and Recycling of Spent Nuclear Fuel** Robin Taylor, 2015-04-18 Reprocessing and Recycling of Spent Nuclear Fuel presents an authoritative overview of spent fuel reprocessing considering future prospects for advanced closed fuel cycles Part One introduces the recycling and reprocessing of spent nuclear fuel reviewing past and current technologies the possible implications of Generation IV nuclear reactors and associated safety and security issues Parts Two and Three focus on aqueous based reprocessing methods and pyrochemical methods while final chapters consider the cross cutting aspects of engineering and process chemistry and the potential for implementation of advanced closed fuel cycles in different parts of the world Expert introduction to the recycling and reprocessing of spent nuclear fuel Detailed overview of past and current technologies the possible implications of Generation IV nuclear reactors and associated safety and security issues A lucid exploration of aqueous based reprocessing methods and pyrochemical methods **STEM**

Integration in K-12 Education National Research Council, National Academy of Engineering, Committee on Integrated STEM Education, 2014-02-28 STEM Integration in K 12 Education examines current efforts to connect the STEM disciplines in K 12 education This report identifies and characterizes existing approaches to integrated STEM education both in formal and after and out of school settings The report reviews the evidence for the impact of integrated approaches on various student outcomes and it proposes a set of priority research questions to advance the understanding of integrated STEM education STEM Integration in K 12 Education proposes a framework to provide a common perspective and vocabulary for researchers practitioners and others to identify discuss and investigate specific integrated STEM initiatives within the K 12 education system of the United States STEM Integration in K 12 Education makes recommendations for designers of integrated STEM experiences assessment developers and researchers to design and document effective integrated STEM education This report will help to further their work and improve the chances that some forms of integrated STEM education will make a positive difference in student learning and interest and other valued outcomes

Higher Education:
Handbook of Theory and Research Laura W. Perna, 2023-02-24 Published annually since 1985 the Handbook series provides a compendium of thorough and integrative literature reviews on a diverse array of topics of interest to the higher education scholarly and policy communities Each chapter provides a comprehensive review of research findings on a selected topic critiques the research literature in terms of its conceptual and methodological rigor and sets forth an agenda for future research intended to advance knowledge on the chosen topic The Handbook focuses on a comprehensive set of central areas of study in higher education that encompasses the salient dimensions of scholarly and policy inquiries undertaken in the international higher education community Each annual volume contains chapters on current important issues pertaining to college students and faculty organization and administration curriculum and instruction policy diversity issues economics and finance history and philosophy community colleges advances in research methodology and other key aspects of higher education administration The series is fortunate to have attracted annual contributions from distinguished scholars throughout the world

Climate Change and Agricultural Development Udaya Sekhar Nagothu, 2016-07-15 Two of the greatest current challenges are climate change and variability and food security Feeding nine billion people by 2050 will require major efforts aimed at climate change adaptation and mitigation One approach to agriculture has recently been captured by the widely adopted term of Climate Smart Agriculture CSA This book not only explains what this entails but also presents practical on the ground studies of practices and innovations in agriculture across a broader spectrum including agroecology and conservation agriculture in less developed countries It is shown that CSA is not a completely new science and a number of its recommended technologies have been used for some time by local farmers all over the world What is relevant and new is the approach to exploit their adaptation and mitigation potential However a major limitation is the lack of evidence based knowledge that is necessary for policy makers to prepare strategies for adaptation and mitigation This book

assembles knowledge of CSA agroecology and conservation agriculture and perspectives from different regions of the world to build resilient food systems The first part analyzes the concept opportunities and challenges and provides a global perspective drawing particularly on studies from Africa and Asia The second part of the book showcases results from various studies linked to soil water and crop management measures from an ongoing program in India as well as experiences from other regions The third section assesses the needs for an enabling policy environment mainstreaming gender and some final recommendations for up scaling and or out scaling innovations

Adapting to a Changing World National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on Undergraduate Physics Education Research and Implementation, 2013-07-24 Adapting to a Changing World was commissioned by the National Science Foundation to examine the present status of undergraduate physics education including the state of physics education research and most importantly to develop a series of recommendations for improving physics education that draws from the knowledge we have about learning and effective teaching Our committee has endeavored to do so with great interest and more than a little passion The Committee on Undergraduate Physics Education Research and Implementation was established in 2010 by the Board on Physics and Astronomy of the National Research Council This report summarizes the committee's response to its statement of task which requires the committee to produce a report that identifies the goals and challenges facing undergraduate physics education and identifies how best practices for undergraduate physics education can be implemented on a widespread and sustained basis assess the status of physics education research PER and discuss how PER can assist in accomplishing the goal of improving undergraduate physics education best practices and education policy

Proceedings of The 14th IAC 2019 group of authors, 2019-04-18 EASTER CONFERENCE The 14th International Academic Conference in Prague 2019 Czech Republic The 14th IAC in Prague 2019

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