

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 plane.~~ (3)
- 2.2 ~~Calculate the magnitude of the displacement.~~ (3)
- 2.3 ~~What is the final velocity of the plane if it starts from rest and accelerates at 2 m/s^2 for 10s?~~ (3)
- 2.4 If the plane took 15min to complete this journey, determine the average speed it flew by. (3)

[10]

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 A and F.~~ (3)
- 3.3 Calculate the magnitude of the velocity at point E. (3)
- 3.4 ~~Calculate the average velocity of the car between points A and 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 3 m/s^2 .

- 5.1 ~~Calculate the velocity of the vehicle after 10s.~~ (2)
- 5.2 ~~Calculate the distance travelled by the vehicle in 10s.~~ (3)
- 5.3 ~~Calculate the velocity of the vehicle after 10s.~~ (3)
- 5.4 ~~Calculate the average velocity of the vehicle.~~ (3)

[10]

Physical Science 2013 September Exam

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Physical Science 2013 September Exam:

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 **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 *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

Britannica Book of the Year 2014 Encyclopaedia Britannica, Inc., 2014-03-01 The Britannica Book of the Year 2014 provides a valuable viewpoint of the people and events that shaped the year and serves as a great reference source for the latest news on the ever changing populations governments and economies throughout the world It is an accurate and comprehensive reference that you will reach for again and again *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 *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 *How Does Government Listen to Scientists?* Claire Craig,2018-07-31 This Palgrave Policy Essential draws together recent developments in the field of science in government policy and public debate Practice and academic insights from a wide variety of fields have both moved on in the last decade and this book provides a consolidated survey of the relatively well established but highly scattered set of insights about the provision of deeply technical expertise in policy making models of climate or disease risk Artificial Intelligence and ethics and so on It goes on to link this to emerging ideas about futures thinking public engagement narrative and the role of values and sentiment alongside the place of scientific and scholarly insights in public decision making and debate The book offers an accessible overview aimed at practitioners policy makers looking to understand how to work with researchers researchers looking to work with policy makers and the increasing numbers and types of brokers people working at the interface in science advice public engagement and communication of science and in expert support to decision making in the public and private sectors In addition to outlining recent insights and placing them in the established frameworks of authors such as Pielke and Jasanoff the book also brings in relevant areas less traditionally associated with the subject but of increasing importance such as modelling futures and narrative 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

Koenig and Schultz's Disaster Medicine Kristi L. Koenig, Carl H. Schultz, 2016-04-18 This is the definitive reference on disaster medicine outlining areas of proficiency for health care professionals handling mass casualty crises

Disorder and the Disinformation Society Jonathan Paul Marshall, James Goodman, Didar Zowghi, Francesca da Rimini, 2015-04-17 This book is the first general social analysis that seriously considers the daily experience of information disruption and software failure within contemporary Western society Through an investigation of informationalism defined as a contemporary form of capitalism it describes the social processes producing informational disorder While most social theory sees disorder as secondary pathological or uninteresting this book takes disordering processes as central to social life The book engages with theories of information society which privilege information order offering a strong counterpoint centred on disinformation Disorder and the Disinformation Society offers a practical agenda arguing that difficulties in producing software are both inherent to the process of developing software and in the social dynamics of informationalism It outlines the dynamics of software failure as they impinge on of information workers and on daily life explores why computerized finance has become inherently self disruptive asks how digital enclosure and intellectual property create conflicts over cultural creativity and disrupt informational accuracy and scholarship and reveals how social media can extend but also distort the development of social movements

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 *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

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

Global eBook 2016 Rüdiger Wischenbart, 2016-05-25 The 2016 edition of the Global eBook report with more than 50 data driven original charts and tables is the international industry reference on the evolution of ebook markets focuses on relevant key angles for an understanding of the current transformation of book publishing in a global perspective Market close ups print and digital for the US UK Europe notably France Germany Italy the Netherlands Spain Sweden and a detailed overview on Central and Eastern Europe Plus analysis of selected emerging markets notably Brazil China India and Russia Summaries of key debates and driving forces global players such as Amazon statistical close ups on pricing performance by genre piracy patterns of consumer habits DRM self publishing et al We provide an overview of trends and developments based on a unique set of data from a wide array of the best available sources backed up by a thorough analysis of overall book publishing in the diverse international contexts The 2016 edition of the Global eBook report particularly emphasizes how digital developments are embedded in the overall evolution of publishing markets by providing context data as well as historical statistics to spot trends and developments over the past 3 to 7 years Main driving forces and policy as well as legal debates shaping the current transformation of the international book business are identified and looked at in country and market comparisons

Sustainability in the Hospitality Industry Willy Legrand, Philip Sloan, Joseph S. Chen, 2016-11-03 Sustainability in the Hospitality Industry Third Edition is the only book available to introduce students to economic environmental and socially

sustainable issues specifically facing the industry as well as exploring ideas solutions and strategies of how to manage operations in a sustainable way Since the second edition of this book there have been many important developments in this field and this latest edition has been updated in the following ways Updated content including sustainable food systems hotel energy solutions impacts of technology water and food waste management green hotel design certification and ecolabelling systems and the evolving nature of corporate social responsibility strategies New chapters exploring environmental accounting and the internalization of externalities as well as the management of accessibility in hospitality Updated and new international case studies with reflective questions throughout to explore key issues and show real life operational responses to sustainability within the hospitality industry This accessible and comprehensive account of Sustainability in the Hospitality Industry is essential reading for all students and future managers in the hospitality industry

Black Futures Kimberly Drew,Jenna Wortham,2021-10-26 A literary experience unlike any I ve had in recent memory a blueprint for this moment and the next for where Black folks have been and where they might be going The New York Times Book Review Editors Choice What does it mean to be Black and alive right now Kimberly Drew and Jenna Wortham have brought together this collection of work images photos essays memes dialogues recipes tweets poetry and more to tell the story of the radical imaginative provocative and gorgeous world that Black creators are bringing forth today The book presents a succession of startling and beautiful pieces that generate an entrancing rhythm Readers will go from conversations with activists and academics to memes and Instagram posts from powerful essays to dazzling paintings and insightful infographics In answering the question of what it means to be Black and alive *Black Futures* opens a prismatic vision of possibility for every reader

Animal Biometrics Santosh Kumar,Sanjay Kumar Singh,Rishav Singh,Amit Kumar Singh,2018-03-16 This book presents state of the art methodologies and a comprehensive introduction to the recognition and representation of species and individual animals based on their physiological and phenotypic appearances biometric characteristics and morphological image patterns It provides in depth coverage of this emerging area with an emphasis on the design and analysis techniques used in visual animal biometrics based recognition systems The book offers a comprehensive introduction to visual animal biometrics addressing a range of recent advances and practices like sensing feature extraction feature selection and representation matching indexing of feature sets and animal biometrics based multimodal systems It provides authoritative information on all the major concepts as well as highly specific topics e g the identification of cattle based on their muzzle point image pattern and face images to prevent false insurance claims or the monitoring and registration of animals based on their biometric features As such the book provides a sound platform for understanding the Visual Animal Biometrics paradigm a vital catalyst for researchers in the field and a valuable guide for professionals In addition it can help both private and public organizations adapt and enhance their classical animal recognition systems

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 Shipping and the Environment Karin Andersson, Selma Brynolf, Fredrik Lindgren, Magda Wilewska-Bien, 2016-02-23 This book focuses on the interaction between shipping and the natural environment and how shipping can strive to become more sustainable Readers are guided in marine environmental awareness environmental regulations and abatement technologies to assist in decisions on strategy policy and investments You will get familiar with possible paths to improve environmental performance and in the long term to a sustainable shipping sector based on an understanding of the sources and mechanisms of common impacts You will also gain knowledge on emissions and discharges from ships prevention measures environmental regulations and methods and tools for environmental assessment In addition the book includes a chapter on the background to regulating pollution from ships It is intended as a source of information for professionals connected to maritime activities as well as policy makers and interested public It is also intended as a textbook in higher education academic programmes **A New Psychology of Women** Hilary M. Lips, 2016-05-04 Rich original and transformative the latest edition of A New Psychology of Women examines how gender related expectations interact with other cultural assumptions and stereotypes and with social and economic conditions to affect women s experiences and behavior Absorbing narratives centered on essential topics in psychology and global research engage readers to grasp cutting edge insights into the psychological diversity of women Aware that our own cultural experience colors and limits what we think we know about people veteran educator and scholar Hilary Lips imbues her discussions with international examples and perspectives to provide an inclusive approach to the psychology of women A wide range of new and extensively updated topics optimize readers knowledge of how disparate perspectives from cultures throughout the world shape women s behavior and attitudes toward health care violence against women poverty labor force participation occupational segregation unpaid work stereotyping and discrimination expectations about power within marriage female genital mutilation theories of gender development women s attitudes toward their bodies use of social media media portrayals of girls and women women in political leadership roles Among thoroughly updated topics particular to US culture are same sex marriage Latina women s issues the portrayal of women of different ethnic and cultural groups on television and breast cancer survival rates of African American and European American women Boxed items containing learning activities profiles of women who helped shape psychology and suggestions for making social changes appear throughout the text Each chapter concludes with discussion questions key terms suggestions for additional reading and Web resources

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