

PHYSICAL SCIENCES P.1

MEMO-2024



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

G.12

NATIONAL
SENIOR CERTIFICATE

1 times by adding different masses to increase the hanging mass each time.
the effects of air friction.



data obtained were used to draw the sketch graph below.



length. The spring then falls to the ground.
Trolley A moves to the left, while trolley B moves to the right and then up a frictionless inclined plane, rising to a maximum vertical height of 1,5 m, as shown in the diagram below.



- 6.1 Write down the principle of conservation of mechanical energy in words. (2)
- 6.2 Calculate the speed of trolley B at the bottom of the inclined plane. (4)
- 6.3 For the hypothesis that the spring takes no time to return to its natural length.

(1 a new page.)

1 applied at an angle of 30° to the horizontal
ly at rest, as shown in the diagram below.

on of 10 N acts on the crate as it moves from rest at point A ab
point B. The distance between point A and point B is 1,5
at point B is 2 m s^{-1} .



is work done by a force.

of free-body diagram showing ALL the forces acting on the crate.

IF PRINCIPLES ONLY, calculate the magnitude of force F.

Physical Science Paper November 2013 Alex Science Memo

**Aileen Fyfe, Noah Moxham, Julie
McDougall-Waters, Camilla Mørk
Røstvik**

Physical Science Paper November 2013 Alex Science Memo:

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

Where Have All the Democrats Gone? Ruy Teixeira, John B. Judis, 2023-11-07 A Wall Street Journal Best Political Book of 2023 A much needed wake up call for the Democrats which reveals how the party has lost sight of its core principles and endangered its political future from the authors of one of the most influential political books of the 21st century The New York Times For decades American politics has been plagued by a breakdown between the Democratic and Republican parties in which victory has inevitably led to defeat and vice versa Both parties have lost sight of the people at the center of the American electorate leading to polarization and paralysis In Where Have All the Democrats Gone John B Judis and Ruy Teixeira reveal the tectonic changes shaping the country's current political landscape that both pundits and political scientists have missed The Democratic Party once the preserve of small towns as well as big cities and of the industrial working class and the newly immigrated has abandoned and even actively alienated many of these voters In this clarion call and essential argument for common sense and common ground Judis and Teixeira reveal the transformation of American politics and provide a razor sharp critique of where the Democrats have gone awry and how they can avoid political disaster in the days ahead

International Arbitration in the Energy Sector Maxi Scherer, 2018-02-22 Disputes in the energy and natural resources sector are at the heart of international arbitration With more arbitrations arising in the international energy sector than in any other sector it is not surprising that the highest valued awards in the history of arbitration come from energy related arbitrations Energy disputes often involve complex and controversial issues relating to security sovereignty and public welfare International Arbitration in the Energy Sector puts international energy disputes into a global context providing broad coverage of

different forms and systems of dispute resolution across both renewable and non renewable sectors With contributions from leading arbitrators academics and industry experts from across the globe the twenty chapters in the book enable readers to compare the approaches to and learnings from energy arbitrations across various legal systems and geographic regions After outlining the international energy arbitration legal framework in Part I the text delves into a detailed analysis of the problems which regularly arise in practice These include among other things commercial disputes in Part II e g over the upstream oil sector and long term gas supply contracts investor state disputes in Part III e g under the Energy Charter Treaty and public international law disputes in Part IV e g concerning international boundaries and the distribution of natural resources Alongside recent developments in the international energy sector attention is given to climate and sustainable development disputes which raise important questions about enforcing sustainability objectives on individuals corporations and states Backed by analyses of arbitral awards national court and international tribunal decisions treaties and other international legal instruments as well as current events and news in the energy industry this text offers a unique contribution to international energy literature and provides insightful commentary on the prevalent issues in the field It is essential reading for any practitioner or researcher in the energy and natural resources sector *The Disposition of Nature* Jennifer Wenzel,2019-12-03 Finalist 2022 Ecocriticism Book Prize Association for the Study of Literature and the Environment Shortlisted 2020 Book Prize Association for the Study of the Arts of the Present How do literature and other cultural forms shape how we imagine the planet for better or worse In this rich original and long awaited book Jennifer Wenzel tackles the formal innovations rhetorical appeals and sociological imbrications of world literature that might help us confront unevenly distributed environmental crises including global warming *The Disposition of Nature* argues that assumptions about what nature is are at stake in conflicts over how it is inhabited or used Both environmental discourse and world literature scholarship tend to confuse parts and wholes Working with writing and film from Africa South Asia and beyond Wenzel takes a contrapuntal approach to sites and subjects dispersed across space and time Reading for the planet Wenzel shows means reading from near to there across experiential divides between specific sites at more than one scale Impressive in its disciplinary breadth Wenzel s book fuses insights from political ecology geography anthropology history and law while drawing on active debates between postcolonial theory and world literature as well as scholarship on the Anthropocene and the material turn In doing so the book shows the importance of the literary to environmental thought and practice elaborating how a supple understanding of cultural imagination and narrative logics can foster more robust accounts of global inequality and energize movements for justice and livable futures **The Chesapeake House** Cary Carson,Carl R. Lounsbury,2013-03-25 For more than thirty years the architectural research department at Colonial Williamsburg has engaged in comprehensive study of early buildings landscapes and social history in the Chesapeake region Its painstaking work has transformed our understanding of building practices in the colonial and early national periods and thereby greatly

enriched the experience of visiting historic sites In this beautifully illustrated volume a team of historians curators and conservators draw on their far reaching knowledge of historic structures in Virginia and Maryland to illuminate the formation development and spread of one of the hallmark building traditions in American architecture The essays describe how building design hardware wall coverings furniture and even paint colors telegraphed social signals about the status of builders and owners and choreographed social interactions among everyone who lived or worked in gentry houses modest farmsteads and slave quarters The analyses of materials finishes and carpentry work will fascinate old house buffs preservationists and historians alike The lavish color photography is a delight to behold and the detailed catalogues of architectural elements provide a reliable guide to the form style and chronology of the region s distinctive historic architecture

Current Law Index ,1996 **Focus on Physical Science** Charles H. Heimler,Jack Price,Charles E. Merrill Publishing Company,1981

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