

# PHYSICAL SCIENCES P.1

## MEMO-2024



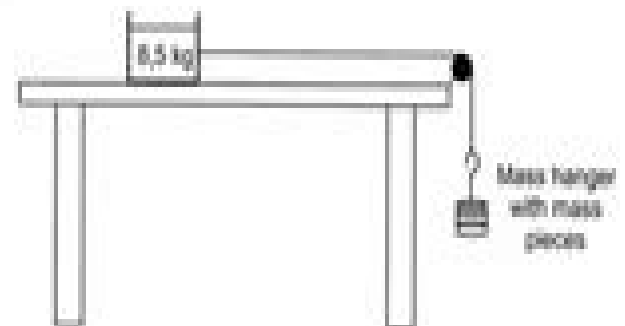
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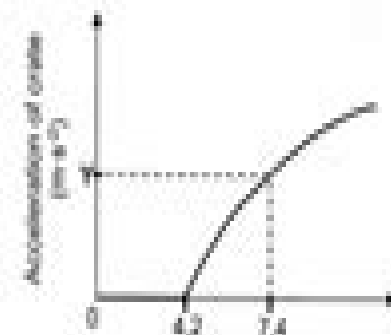
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1 times by adding different masses to increase the hanging mass each time.  
the effects of air friction.



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.



Ignore the rotational effects of the wheels.

- 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 frequency that the spring takes to return to its natural length. (2)

1 a new page.)

1 applied at an angle of  $30^\circ$  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  $2 \text{ m s}^{-1}$ .



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.

# Memo Papergeography September 2014

**C Cleary**



## **Memo Papergeography September 2014:**

**Law and Regulation of Mobile Payment Systems** Joy Malala, 2017-11-28 Over the last ten years mobile payment systems have revolutionised banking in some countries in Africa In Kenya the introduction of M Pesa a new financial services model has transformed the banking and financial services industry Giving the unbanked majority access to the financial services market it has attracted over 18 million subscribers which is remarkable given that fewer than 4 million people in Kenya have bank accounts This book addresses the legal and regulatory issues arising out of the introduction of M Pesa in Kenya and its drive towards financial inclusion It considers the interaction between regulation and technological innovation with a particular focus on the regulatory tools institutional arrangements and government decisional processes through the examination as a whole of its regulatory capacity This is done with a view to understanding the regulatory capacity of Kenya in addressing the vulnerabilities presented by technological innovation in the financial industry for consumers after financial inclusion It also examines the way that mobile payments have been regulated by criticising the piecemeal approach that the Central Bank of Kenya has taken in addressing the legal and regulatory issues presented by mobile payments The book argues there are significant gaps in the regulatory regime of mobile banking in Kenya

**Origination** Andy Pike, 2015-03-24 Origination The Geographies of Brands and Branding offers innovative theoretical and conceptual frameworks relating to the ways that actors create meaning and value in commodity brands and branding through processes of geographical association Provides innovative conceptualization and theorization to facilitate an understanding of the geographical dimensions of brands and branding Challenges current interpretations of brands as vehicles of homogenization in globalization Establishes the theoretical and conceptual foundations of a more geographically sensitive approach through rigorous empirical examination of the under researched geographical differentiation of commodity brands and branding Presents innovative new research and analysis of the socio spatial biographies of the Newcastle Brown Ale Burberry and Apple brands Forges strong new connections between political and cultural economy approaches within geography Provides a distinctive and incisive conceptual and theoretical framework capable of engaging other branded commodities and their branding in other times and places

*The World Factbook 2016-17* Government Publications Office, 2016-08-18 The World Factbook provides information on the history people government economy geography communications transportation military and transnational issues for 267 world entities The World Factbook Reference tab includes maps of the major world regions as well as Flags of the World a Physical Map of the World a Political Map of the World a World Oceans map and a Standard Time Zones of the World map This annual edition also covers information about country profiles and country comparisons It would make an excellent and useful resource for world geography research papers and international relations classes that may study the people history and communication patterns of other countries

**Rethinking Climate Change, Conflict and Security** Jan Selby, Clemens Hoffmann, 2017-10-02 Is global climate change likely to become a significant source of violent conflict and

should it therefore be seen as a national security challenge Most Northern governments militaries think tanks and NGOs believe so as do many academic researchers on the grounds that increased temperatures changing precipitation patterns and rising sea levels will worsen existing social stresses especially within poor societies and marginal communities across Africa and Asia This book argues otherwise The first collection of its kind it brings together leading scholars of Anthropology Geography Development Studies and International Relations to provide a series of critical analyses of mainstream thinking on the climate security nexus It shows how policy discourse on climate conflict consistently misrepresents the causes of violence especially by obscuring its core political dimensions It demonstrates that quantitative research provides a flawed basis for understanding climate conflict linkages It argues that climate security discourse is in hoc with a range of questionable military authoritarian and developmental agendas And it reveals that the greening of global capitalism is already having violent consequences across the global South Climate change the book argues does indeed have serious conflict and security implications but these are quite different from how they are usually imagined This book was published as a special issue of *Geopolitics*     **The World Factbook** ,2016     **Datapolis** Paul Cournet,Negar Sanaan Bensi,2024-02-05 DATAPOLIS looks into the materiality of data its inherent ethical and political contradictions as well as cultural and environmental footprints by following two main trajectories the first one attempts to define what the cloud is and how it operates From the systems and infrastructures behind the Internet to the apparatus gizmos and buildings that can transcend scales and temporal dimensions The second one explores how data penetrates our existence not only by affecting the ways we live and work or design and make cities but by offering distinct ways of life and organization that otherwise would not have been possible Through various visual and textual materials this book speculates on the ways in which architecture can engage with data and digital technology beyond its mere instrumental use in making smart cities DATAPOLIS is edited by Paul Cournet and Negar Sanaan Bensi With contributions by Kees Kaan Kate Crawford Shannon Mattern Ruha Benjamin Marina Otero Verzier and Joost Grootens a o The most complete version of this work was published in 2023 by nai010     Urbanization and Development ,2016 The analysis of urban development of the past twenty years presented in this maiden edition of the World Cities Report shows with compelling evidence that there are new forms of collaboration and cooperation planning governance finance and learning that can sustain positive change The Report unequivocally demonstrates that the current urbanization model is unsustainable in many respects It conveys a clear message that the pattern of urbanization needs to change in order to better respond to the challenges of our time to address issues such as inequality climate change informality insecurity and the unsustainable forms of urban expansion     *Yojana* ,2014     *Yearbook of International Organizations 2014-2015 (Volume 4)* Union Of International Associations,Union of International Associations,2014-09-17 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and

intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here  
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