

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.



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. | |

(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

Rose Army



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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

Death Dust William C. Potter, Sarah Bidgood, Samuel Meyer, Hanna Notte, 2023-12-19 The postwar period saw increased interest in the idea of relatively easy to manufacture but devastatingly lethal radiological munitions whose use would not discriminate between civilian and military targets Death Dust explores the largely unknown history of the development of radiological weapons RW weapons designed to disperse radioactive material without a nuclear detonation through a series of comparative case studies across the United States the Soviet Union the United Kingdom Iraq and Egypt The authors illuminate the historical drivers of

and impediments to radiological weapons innovation They also examine how new dire geopolitical events such as the war in Ukraine could encourage other states to pursue RW and analyze the impact of the spread of such weapons on nuclear deterrence and the nonproliferation regime Death Dust presents practical necessary steps to reduce the likelihood of a resurgence of interest in and pursuit of radiological weapons by state actors *Arming the Warship* Iver P.

Cooper,2024-11-04 In the 16th century warships engaged at close range sometimes with yards touching and small arms fire and hand to hand combat were at least as important as the great guns As time went on the big guns became more decisive and increased in destructive power range and accuracy This book explores how naval armament armor ballistics and gunnery evolved from the 16th to 20th centuries from a scientific and technological perspective It examines the functional aspects the guns and their distribution on warships the propellants the projectiles and so forth and examines the development of each

Forthcoming Books Rose Arny,1992 **Focus on Physical Science** Charles H. Heimler,Jack Price,Charles E. Merrill Publishing Company,1981

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