

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. | |

(4 new pages.)

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

on of 10 N acts on the crate as it moves from rest at point A up
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 Grade Caps 2012 Memo

**Charles Lester Bickel, Neal D.
Eigenfeld, John Clarence Hogg**



Physical Science Grade Caps 2012 Memo:

Physical and Health Education in Canada Barrett, Joe, Scaini, Carol, 2019 Physical and Health Education in Canada Integrated Strategies for Elementary Teachers is a compendium of integrated evidence based approaches to physical and health education teaching from leading physical and health educators and researchers from across Canada Fishery Bulletin ,2013 The State of Conservation Joshua Nygren, 2025-01-06 In the twentieth century natural resource conservation emerged as a vital force in US politics laying the groundwork for present day sustainability Merging environmental agricultural and political history Joshua Nygren examines the political economy and ecology of agricultural conservation through the lens of the conservation industrial complex This evolving public private network which united the US Department of Agriculture Congress local and national organizations and the agricultural industry guided soil and water conservation in rural America for much of the century Contrary to the classic tales of US environmental politics and the rise and fall of the New Deal Order this book emphasizes continuity Nygren demonstrates how the conservation policies programs and partnerships of the 1930s and 1940s persisted through the age of environmentalism and how their defining traits anticipated those typically associated with late twentieth century political culture The conservation industrial complex promoted a development oriented brand of conservation that aided the rise of large scale capital intensive agriculture which continues today It also reshaped the physical and political landscapes of the country leading to impressive conservation victories and spectacular failures by privileging some environments degrading others and intensifying farm depopulation In the name of environmental protection agricultural conservation made rural America less equal *LearnXtra Physical Sciences* ,2012 *Focus on Physical Science* Charles H. Heimler, Jack Price, Charles E. Merrill Publishing Company, 1981 The Curriculum Guide for Physical Science Mt. Lebanon School District (Mount Lebanon, Pa.), 1981 Focus on Physical Science Charles H. Heimler, Linda Barr, Jack Price, 1989 **Physical science investigations** Charles Lester Bickel, Neal D. Eigenfeld, John Clarence Hogg, 1973

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