

# 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.
1. Write down the principle of conservation of mechanical energy in words. (2)
  2. Calculate the speed of trolley B at the bottom of the inclined plane. (4)
  3. For the hypothesis that the spring takes no time 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 up  
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.

# Memorandum Of Physical Science P1 2014 November

**Ian F. Putnam**



## **Memorandum Of Physical Science P1 2014 November:**

**A Homology Theory for Smale Spaces** Ian F. Putnam, 2014-09-29 The author develops a homology theory for Smale spaces which include the basics sets for an Axiom A diffeomorphism It is based on two ingredients The first is an improved version of Bowen's result that every such system is the image of a shift of finite type under a finite to one factor map The second is Krieger's dimension group invariant for shifts of finite type He proves a Lefschetz formula which relates the number of periodic points of the system for a given period to trace data from the action of the dynamics on the homology groups The existence of such a theory was proposed by Bowen in the 1970s      The Case for Pandora James Essig, Steve McCarter, 2016-12-19 This book is about building craft for space travel a space travel that is not in the distant future but in the immediate future There is no question that we have the technology to build and power large craft capable of traversing the galaxy and for now this book will focus on achieving the goal of intragalactic travel We will describe various methods of power generation and propulsion delineate the materials and technology for construction discuss the building of the spacecraft from the outside in and show what is required to sustain life on the craft for extended periods of time While we will go into some detail on each of these pointing out advantages and disadvantages to components and methods this is not nor is it intended to be a highly technical book to be used by specialists Rather it is intended to inform the general readership about what is possible and perhaps what is not in building and operating spacecraft for long distance and long duration travel with current and available means

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