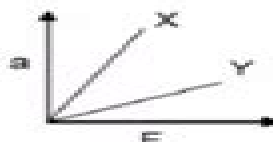


## GRADE 11 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.6) on your folio paper. Example 1.7. D.

- 1.1 The graphs below show the relationship between the net force and the acceleration for two masses X and Y.



Which one of the following statements is true?

- A X has a greater mass.
  - B The bodies have equal mass.
  - C Y has a greater mass.
  - D The mass would not affect the gradient of the graph.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.
- A An object moving with constant acceleration.
  - B When the only force acting on the object is gravitational acceleration.
  - C An object that undergoes equal displacements every second.
  - D An object is moving with increasing acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object moving at constant velocity upwards from the ground.
  - B An object moving at constant velocity downwards from the ground.
  - C An object that is accelerated upwards away from the ground by a constant applied force.
  - D An object accelerates downwards towards the Earth with an acceleration of  $9.8\text{m}\cdot\text{s}^{-2}$ .
- 1.4 The inertia of an object ...
- A is greater if its mass is smaller.
  - B increases as the applied force on the object increases.
  - C is the resistance to any change in its state of motion.
  - D increases as the frictional force on the object increases.
- 1.5 An astronaut has a weight  $F_g$  on Earth. What distance, in terms of the radius of

# Physical Science Informal Test Number 7 Memorandum

**Rachel Sandford**



## **Physical Science Informal Test Number 7 Memorandum:**

**Resources in Education** ,1998      **Los Angeles Magazine** ,2003-11 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian      *Nuclear Science Abstracts* ,1959 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

**Research in Education** ,1970      **Army Research and Development** ,1967      Bulletin of the Atomic Scientists ,1969-02 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      **The Booklist Books** ,1926 Contains general literature fiction children s books technical books      **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents,1979 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index      **Government Reports Announcements & Index** ,1996-11      National Library of Medicine Catalog National Library of Medicine (U.S.),1960      *Journal of the National Education Association* ,1927      **The Journal of the National Education Association** National Education Association of the United States,1927      *Atlanta* ,2004-07 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think

about matters of importance to the community and the region      Doing Qualitative Research Using Your Computer Chris Hahn, 2008-04-11 I find your straightforward writing style an absolute joy such a breath of fresh air Angie Ash PhD student thank you very much for your accessible language clear lay out and practical applied approach I suspect that this book will never be far from my side over the next 4 years Mayen Konarski PhD student Using straight forward language Doing Qualitative Research Using Your Computer walks readers through the process of managing and streamlining research projects using commonly available Microsoft software applications Drawing on a wide range of examples to demonstrate how easy it is to use such software this guide is full of useful hints and tips on how to manage research more efficiently and effectively including Formatting transcripts for maximum coding efficiency in Microsoft Word Using features of Word to organize the analysis of data and to facilitate efficient qualitative coding Synchronizing codes categories and important concepts between Microsoft Word and Microsoft Access Efficiently storing and analyzing the qualitative data in Microsoft Excel Creating flexible analytic memos in Access that help lead the researcher to final conclusions Ideal for those students or researchers who don't want to invest in expensive specialised software packages this guide will be an invaluable companion for anyone embarking on their own research project      Polarized Light and Optical Systems Russell Chipman, Wai Sze Tiffany Lam, Garam Young, 2018-07-16 Polarized Light and Optical Systems presents polarization optics for undergraduate and graduate students in a way which makes classroom teaching relevant to current issues in optical engineering This curriculum has been developed and refined for a decade and a half at the University of Arizona's College of Optical Sciences Polarized Light and Optical Systems provides a reference for the optical engineer and optical designer in issues related to building polarimeters designing displays and polarization critical optical systems The central theme of Polarized Light and Optical Systems is a unifying treatment of polarization elements as optical elements and optical elements as polarization elements Key Features Comprehensive presentation of Jones calculus and Mueller calculus with tables and derivations of the Jones and Mueller matrices for polarization elements and polarization effects Classroom appropriate presentations of polarization of birefringent materials thin films stress birefringence crystal polarizers liquid crystals and gratings Discussion of the many forms of polarimeters their trade offs data reduction methods and polarization artifacts Exposition of the polarization ray tracing calculus to integrate polarization with ray tracing Explanation of the sources of polarization aberrations in optical systems and the functional forms of these polarization aberrations Problem sets to build students problem solving capabilities      **Bulletin of the Atomic Scientists** ,1975-02 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world      **Human Factors Engineering Bibliographic Series** ,1960      **The Advocate** ,2001-08-14 The Advocate is a lesbian gay bisexual transgender LGBT monthly newsmagazine Established in 1967 it is the oldest continuing LGBT publication in the United

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