

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. Mass of X is greater than mass of Y.
B. Acceleration of X is greater than acceleration of Y.
C. Mass of Y is greater than mass of X.
D. The slope of X is greater than the slope of Y.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A person moving at a constant speed.
B. When the net force acting on the object is constant and not equal to zero.
C. A person accelerating from rest to a higher speed in a very short time.
D. A person moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not being pulled down by the force of gravity.
B. An object is moving at a constant velocity in a straight line and is not being pulled down by the force of gravity.
C. An object is not being pulled down by the force of gravity, it is being pulled up by the force of gravity.
D. An object is not being pulled down by the force of gravity, it is being pulled up by the force of gravity.
- 1.4 The inertia of an object...
- A. Is a measure of its mass.
B. Is a measure of its speed.
C. Is a measure of its acceleration.
D. Is a measure of its velocity.
- 1.5 An astronaut has a weight F_g on Earth. What distance, in terms of the radius of the Earth (r), will the astronaut be if his weight is a 1/4 of his weight (F_g) on the

surface of the Earth?

- A. $2r$
B. r
C. $1.5r$
D. $0.5r$
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A. The box is too heavy.
B. The box is too light.
C. The box is too big.
D. The box is too small.

[14]

QUESTION 2

The grade 11 learners learn that there is more than one way to determine the resultant of two vectors. One way is the component method. They want to use this method to find the resultant of the forces acting on a bucket by the ropes from which the bucket is suspended. The bucket is stationary.

- 2.1 Draw the force diagram. (2)
- 2.2 The tension in rope P is 100N at an angle of 30° to the vertical and the tension in Q is 51,52N at 45° to the vertical.



Calculate the MAGNITUDE of the:

- 2.2.1 Horizontal components of P and Q respectively. (4)
2.2.2 Vertical components of P and Q respectively. (4)
2.2.3 Resultant of the horizontal components. (5)
2.2.4 Resultant of the vertical components. (5)
2.2.5 Resultant of the forces acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

Physical Sciences March Paper For Grade 11 2014

Michael Brown



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High-Energy Astrophysics Research Enabled By The Probe-Class Mission Concept HEX-P Gabriele Ponti,Murray Brightman,Esra Bulbul , Renee Ludlam,Daniel Stern,Javier A. García,2025-06-02 The Astro 2020 Decadal report Pathways to Discovery in Astronomy and Astrophysics for the 2020s identified the need for a new class of mission for the next decade that fills the gap between a Mid sized Explorer MIDEX and Flagship Large mission The report specifically recommends that a cadence of one probe mission per decade with a cost cap of 1 5 billion balances scientific scope with timeliness NASA has followed this recommendation and opened a call for Astrophysics Probe Explorer APEX proposals restricted to either a far infrared or an X ray mission due in Fall 2023 with a planned launch date in no later than 2032 In response to this call the

High Energy X ray Probe HEX P concept has been developed as a partnership between NASA's Jet Propulsion Laboratory JPL the California Institute of Technology Caltech and the NASA Goddard Space Flight Center GSFC with international partnership from the Italian Space Agency ASI Italy the German Space Agency DLR and the Max Planck Institute for Extraterrestrial Physics MPE Germany HEX P is a mission concept that offers sensitive broad band coverage from soft to hard X rays 0.2-80 keV with an exceptional combination of spectral timing and angular capabilities It features two high energy telescopes HETs that focus hard X rays and one low energy telescope LET that focuses lower energy X rays building upon the heritage of previous successful missions such as XMM Newton and NuSTAR With this leap in observational capability HEX P will be capable of addressing fundamental questions about the extreme environments around black holes and neutron stars map the growth of supermassive black holes and quantify the effect they have on their environments HEX P will resolve the hard X ray emission from dense regions of our Galaxy to understand the high energy source populations and investigate dark matter candidate particles through their decay channel signatures In this Frontiers Research Topic we present a collection of papers which delve into some of the most exciting scientific questions that can be addressed with a mission like HEX P The papers have been prepared by members of the HEX P collaboration which is organized into four main scientific pillars Black Hole Growth Accretion Power Stellar Evolution Time Domain and Multi Messenger Astronomy The individual papers cover a range of topics including The cosmic X ray background Seyfert galaxies Compton thick active galaxies and blazars Black hole binaries neutron stars magnetars ultraluminous X ray sources and tidal disruption events The physics of the X ray corona X ray populations in nearby galaxies Supernova remnants pulsar wind nebulae and nuclear astrophysics Galactic PeVatrons star clusters superbubbles microquasar jets and gamma ray binaries The Galactic Center Supermassive black spin measurements and dual active galaxies Pulsar Timing electromagnetic counterparts of gravitational wave sources and transient phenomena The main goal of this Research Topic is to present detailed modeling and simulations for a range of HEX P science cases in order to demonstrate the capabilities of HEX P in serving the astrophysics community in the next decade The members of the HEX P mission are welcome to present Original Research papers as well as any other kind of article types that fit their manuscript Please have a look at here to choose the appropriate article type to submit to this collection This Research Topic is organized by the researchers of the HEX P mission Authors and Guest Editors belong to the same consortium Furthermore Dr Daniel Stern and Dr Javier Garcia are the Principal Investigator and the Project Scientist of the mission respectively All manuscripts will be peer reviewed by researchers external to the collaboration

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Table of Contents Physical Sciences March Paper For Grade 11 2014

1. Understanding the eBook Physical Sciences March Paper For Grade 11 2014
 - The Rise of Digital Reading Physical Sciences March Paper For Grade 11 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Sciences March Paper For Grade 11 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physical Sciences March Paper For Grade 11 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Sciences March Paper For Grade 11 2014
 - Personalized Recommendations
 - Physical Sciences March Paper For Grade 11 2014 User Reviews and Ratings

- Physical Sciences March Paper For Grade 11 2014 and Bestseller Lists
- 5. Accessing Physical Sciences March Paper For Grade 11 2014 Free and Paid eBooks
 - Physical Sciences March Paper For Grade 11 2014 Public Domain eBooks
 - Physical Sciences March Paper For Grade 11 2014 eBook Subscription Services
 - Physical Sciences March Paper For Grade 11 2014 Budget-Friendly Options
- 6. Navigating Physical Sciences March Paper For Grade 11 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Sciences March Paper For Grade 11 2014 Compatibility with Devices
 - Physical Sciences March Paper For Grade 11 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Sciences March Paper For Grade 11 2014
 - Highlighting and Note-Taking Physical Sciences March Paper For Grade 11 2014
 - Interactive Elements Physical Sciences March Paper For Grade 11 2014
- 8. Staying Engaged with Physical Sciences March Paper For Grade 11 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Sciences March Paper For Grade 11 2014
- 9. Balancing eBooks and Physical Books Physical Sciences March Paper For Grade 11 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Sciences March Paper For Grade 11 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Sciences March Paper For Grade 11 2014
 - Setting Reading Goals Physical Sciences March Paper For Grade 11 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Sciences March Paper For Grade 11 2014
 - Fact-Checking eBook Content of Physical Sciences March Paper For Grade 11 2014
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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