



GRADE 11 PHYSICAL SCIENCES NABCH TEST

QUESTION 1

Answer questions one to seven in the spaces provided in the following questions. Choose the correct answer and write ONLY the LETTER (A-D) next to the QUESTION NUMBER in the space provided on your test paper (Example 1.1.1).

- 1.1 The graph below shows the relationship between the net force and the acceleration for two masses A and B.



Which one of the following statements is true?

- 1.1.1 Which one of the following statements is true?
 - A) $m_A < m_B$
 - B) $m_A > m_B$
 - C) $m_A = m_B$
 - D) The relationship between force and acceleration is not linear.
- 1.1.2 In which of the following cases would the resultant force acting on an object be equal to 0 N?
 - A) Three forces acting on an object at right angles.
 - B) A force and a frictional force acting on an object in the same direction.
 - C) Two forces acting on an object, one at 45° and the other at 135° to the horizontal.
 - D) A force and a frictional force acting on an object at 90° .
- 1.1.3 Which of the statements below best describes the resultant?
 - A) It is the vector sum of all the forces acting on an object.
 - B) It is the sum of all the forces acting on an object, regardless of direction.
 - C) It is the sum of all the forces acting on an object, regardless of their magnitude.
 - D) It is the sum of all the forces acting on an object, regardless of their direction and magnitude.
- 1.1.4 The vector of an object...
 - A) is the sum of all the forces acting on it.
 - B) is the sum of all the forces acting on it, regardless of their direction.
 - C) is the sum of all the forces acting on it, regardless of their magnitude.
 - D) is the sum of all the forces acting on it, regardless of their direction and magnitude.
- 1.1.5 An object has a weight W , is suspended from a point, and is at rest. The value of the resultant is...
 - A) W
 - B) 0
 - C) $W/2$
 - D) $2W$

vector of the force?

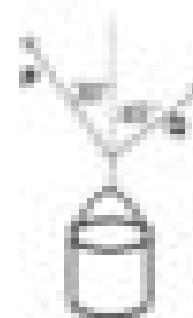
- 1.1.6 Which of the following is the correct vector of the force?
 - A) W
 - B) 0
 - C) $W/2$
 - D) $2W$
- 1.1.7 Which of the following is the correct vector of the force?
 - A) W
 - B) 0
 - C) $W/2$
 - D) $2W$

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QUESTION 2

The grade 11 learners have had time to work from one way to determine the resultant of three vectors. One group of the component method. They want to use the vector to find the resultant of the force acting on a block by the rope that when the block is suspended. The learners' solution is:

- 2.1 The resultant is the sum of the three vectors.
- 2.2 The resultant is the sum of the three vectors, but the resultant is the sum of the three vectors, but the resultant is the sum of the three vectors.



Answer the following questions:

- 2.2.1 What is the resultant of the three vectors?
- 2.2.2 What is the resultant of the three vectors?
- 2.2.3 What is the resultant of the three vectors?
- 2.2.4 What is the resultant of the three vectors?
- 2.2.5 What is the resultant of the three vectors?

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LL Leslie



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Daily Graphic Ransford Tetteh,2014-03-12 **Organization and Administration of Physical Education** Jayne D. Greenberg,Judy L. LoBianco,2025-03-11 The revised SHAPE America National Physical Education Standards are defining physical education PE programs providing the framework for students physical literacy journeys Organization and Administration of Physical Education Theory and Practice Second Edition With HKPropel Access incorporates the revised standards making it the text administrators need to learn how the standards affect curriculum development and implementation of a successful PE program This edition is thoroughly updated by two award winning educators Jayne Greenberg and Judy LoBianco who are joined by a sterling list of contributors who have taught at every education level in urban suburban and rural settings In this second edition the roles and responsibilities of PE administrators are examined through theoretical and practical lenses Beyond incorporating the revised PE standards and the latest research throughout other enhancements to this edition include the following An expanded technology chapter that addresses equity and the digital divide remote learning virtual and augmented reality and artificial intelligence A more comprehensive chapter on teacher and program evaluation A new chapter on social emotional learning SEL with connections between content pedagogy and practices A new chapter on diversity equity and inclusion that provides culturally responsive teaching approaches to elevate the participation of underrepresented teachers and students New content for physical education department chairpersons The result is an essential manual for future and current administrators in PE leadership positions who want to acquire new skills in the primary six areas of responsibility Part I explores leadership and management styles and presents practical theories of motivation development and planning for the essential components of a quality PE program In part II readers examine various curriculum instruction and assessment models and get guidance on planning special events Part III helps administrators plan new school facilities or renovate existing ones and it presents contemporary concepts in universal design and sustainable environmental design It also offers ideas on how to incorporate technology including developing online PE courses Part IV explores communication legal issues and human resources so administrators can learn how to advocate for their programs Part V explains the fiscal responsibilities inherent in administrative positions and shows how administrators can secure independent funding offering many examples of grants and fundraising opportunities with sample grant applications Part VI new to this edition explores the integration of content and pedagogy with SEL practices It also offers legal and practical strategies to enhance the involvement of those who are underrepresented in PE Each chapter also includes sidebars from professionals who share tips and insights on successful program implementations To further enhance practical application readers have online access to downloadable forms checklists and other supportive materials Published with SHAPE America this text offers the solid foundational theory and practices needed for today s challenges in PE administration Note A code for accessing HKPropel is included with this ebook **Women's Under-Representation in the**

Engineering and Computing Professions: Fresh Perspectives on a Complex Problem Kathleen Buse, Catherine Hill, Romila Singh, 2018-06-21 Understanding the many complexities that define gender inequality has been described by researchers as a grand challenge. Novel insights, innovation, a broader community to conduct research, and to ascertain effective interventions are essential in the challenge to create organizations that are gender equal. As such, this Research Topic in *Frontiers in Psychology* addresses the underrepresentation of women in engineering and computing as a complex but solvable problem. This Research Topic seeks to inform the global community about advances in understanding the underrepresentation of women in engineering and computing with a focus on what enables change. Further, this Topic will promote fresh perspectives, innovative methodologies, and mixed method approaches important to accelerating the pace of change.

The Insider's Guide to the Colleges, 2014 Yale Daily News Staff, 2013-07-09 The Straight Talking Student's Guide to the Best Colleges in the US. With this new edition, *The Insider's Guide to the Colleges* has been for 40 years the most relied upon resource for high school students looking for honest reports on USA colleges from their fellow students. Having interviewed hundreds of their peers on more than 330 university and college campuses and by getting the inside scoop on everything from the nightlife and professors to the newest dorms and wildest student organizations, the reporters at the Yale Daily News have created the most candid college choice guide available. In addition to the well-rounded profiles, this edition has been updated to include essential statistics for every school from acceptance rates to popular majors. A College Finder to help students pick the perfect school. FYI sections with student opinions and outrageous off-the-cuff advice to further help in college selection. *The Insider's Guide to the Colleges* cuts through the glossy college brochures to get to the things that matter most to students trying to select a college, and by staying on top of trends, it gives those students and their parents the straightforward information they need to choose the school that's right for them.

POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning (POGIL) is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines. Beyond facilitating students' mastery of a discipline, it promotes vital educational outcomes such as communication skills and critical thinking. Its active international community of practitioners provides accessible educational development and support for anyone developing related courses. Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry, the POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success, develop curricular materials to assist this process, conduct research expanding what is known about learning and teaching, and provide professional development and collegiality from elementary teachers to college professors. As a pedagogy, it has been shown to be effective in a variety of content areas and at different educational levels. This is an introduction to the process and the community. Every POGIL classroom is different and is a reflection of the uniqueness of the particular context, the institution, department,

physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project The College Handbook ,1987

Primary Science Education in East Asia Yew-Jin Lee,Jason Tan,2018-09-26 This edited volume is a state of the art comparison of primary science education across six East Asian regions namely the People s Republic of China Republic of Korea Republic of China Hong Kong SAR Japan and Singapore While news of educational policies classroom teaching assessment and other educational innovations here often surface in the international media this book brings together for the first time relevant information regarding educational systems and strategies in primary science in East Asia Above all it is a readable yet comprehensive survey readers would have an accurate sense of what has been accomplished what has not worked so well and what remains to be done Invited experts in comparative education research and or science education also provide commentary by discussing common themes across the six regions These types of critical synoptic reviews add much value by enabling readers to understand broad commonalities and help synthesize what must surely be a bewildering amount of very interesting albeit confusing body of facts issues and policies Education in East Asia holds many lessons both positive and negative to offer to the rest of the world to which this volume is a timely contribution to the literature *Emerging Practices for Online Language Assessment, Exams, Evaluation, and Feedback* Gokturk-Saglam, Asli Lidice,Sevgi-Sole, Ece,2023-06-29 The advancement of digital tools has enabled the development of online language assessments exams evaluations and feedback Nonetheless the language assessment literacy required of a teacher today is of a completely different kind one that is adapted to the digital environment and altered for the pedagogical approaches of our new norm There is a scarcity of literature addressing the challenges of in person to online assessments exams evaluations and feedback particularly in the time of the COVID 19 education crisis *Emerging Practices for Online Language Assessment Exams Evaluation and Feedback* investigates the main challenges of online language assessment when migrating from an in class to

an online environment due to academic integrity adaptation to the new testing environment technical problems and anxiety
Covering key topics such as parental involvement self assessment and language learners this premier reference source is ideal for administrators policymakers industry professionals researchers academicians scholars practitioners instructors and students

Understanding Employer Engagement in Education Anthony Mann, Julian Stanley, Louise Archer, 2014-05-30 This collection focuses on employer engagement in education how it is delivered and the differentiated impact it has on young people in their progression through schooling and higher education into the labour market The focus is not narrowly on vocational or technical education or work related learning but on how employer engagement eg work experience internships careers education workplace visits mentoring enterprise education etc influences the experiences and outcomes of the broad range of young people across mainstream academic learning programmes The essays explore the different ways in which education can support or constrain social mobility and in particular how employer engagement in education can have significant impact upon social mobility both positive and negative Leading international contributors examine issues surrounding employer engagement and social mobility conceptualisations of employer engagement trends in social mobility employer engagement and social class access and management of work experience social capital and aspiration access to employment The book makes employer engagement an innovative focus in relation to the well established fields of social mobility and school to work transition By examining what difference employer engagement makes the essays raise questions about conventional models and show how research drawing on different fields and disciplines can be brought together to provide a more coherent and convincing account Building on new theorisations and combining existing and new data the collection offers a systematic exploration of the influence of socio economic status on school to work transitions and addresses how educational policy can shape more efficient labour market outcomes In doing so it draws on and speaks to existing literature which has considered such questions from the perspectives of gender ethnicity and social disadvantage

Reading and Writing in Science Maria C. Grant, Douglas Fisher, Diane Lapp, 2015-01-21 Engage your students in scientific thinking across disciplines Did you know that scientists spend more than half of their time reading and writing Students who are science literate can analyze present and defend data both orally and in writing The updated edition of this bestseller offers strategies to link the new science standards with literacy expectations and specific ideas you can put to work right away Features include A discussion of how to use science to develop essential 21st century skills Instructional routines that help students become better writers Useful strategies for using complex scientific texts in the classroom Tools to monitor student progress through formative assessment When students are curious they thrive Give your students the strong base they need to create and share scientific ideas that have an impact in the classroom and beyond This is a teacher friendly book that drew me in from the introduction to the end Through real life scenarios combined with useful methods for instruction it illustrates how science teachers can use language as a tool for teaching science Trina Allen Science Content

Specialist Measurement Incorporated An eminently readable guide for the novice and experienced teacher The many practical ideas in this volume demonstrate that improving students skills in reading and writing can also improve their understanding and ability in science Cary Sneider Associate Research Professor Portland State University Portland OR

Minerals Yearbook Geological Survey, Interior Department, Mines Bureau, 2019-01-31 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary *Minerals Yearbook* Geological Survey, Interior Department, Mines Bureau, 2019-01-31 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary **Evidence-Based Practice for**

Public Health Emergency Preparedness and Response National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Population Health and Public Health Practice, Board on Health Sciences Policy, Committee on Evidence-Based Practices for Public Health Emergency Preparedness and Response, 2020-11-28 When communities face complex public health emergencies state local tribal and territorial public health agencies must make difficult decisions regarding how to effectively respond The public health emergency preparedness and response PHEPR system with its multifaceted mission to prevent protect against quickly respond to and recover from public health emergencies is inherently complex and encompasses policies organizations and programs Since the events of September 11 2001 the United States has invested billions of dollars and immeasurable amounts of human capital to develop and enhance public health emergency preparedness and infrastructure to respond to a wide range of public health threats including infectious diseases natural disasters and chemical biological radiological and nuclear events Despite the investments in research and the growing body of empirical literature on a range of preparedness and response capabilities and functions there has been no national level comprehensive review and grading of evidence for public health emergency preparedness and response practices comparable to those utilized in medicine and other public health fields Evidence Based Practice for Public Health Emergency Preparedness and Response reviews the state of the evidence on PHEPR practices and the improvements necessary to move the field forward and to strengthen the PHEPR system This publication evaluates PHEPR evidence to understand the balance of benefits and harms of PHEPR practices with a focus on four main areas of PHEPR engagement with and training of community based partners to improve the outcomes of at risk populations after public health emergencies activation of a public health emergency operations center communication of public health alerts and guidance to technical audiences during a public health emergency and implementation of quarantine to reduce the spread of contagious illness *Resources in Education* ,1986 Food Loss and Food Waste Michael Blakeney, Global food insecurity is a growing issue At a time when the world s population is increasing and agricultural production is challenged by climate

change it is estimated that around a third of the food produced globally is lost or wasted This book examines the problem of food loss and waste FLW and the policies that could be enacted to remedy this fundamental global concern **Rare Earth Frontiers** Julie M. Klinger, 2018-01-15 Rare Earth Frontiers is a work of human geography that serves to demystify the powerful elements that make possible the miniaturization of electronics green energy and medical technologies and essential telecommunications and defense systems Julie Michelle Klinger draws attention to the fact that the rare earths we rely on most are as common as copper or lead and this means the implications of their extraction are global Klinger excavates the rich historical origins and ongoing ramifications of the quest to mine rare earths in ever more impossible places Klinger writes about the devastating damage to lives and the environment caused by the exploitation of rare earths She demonstrates in human terms how scarcity myths have been conscripted into diverse geopolitical campaigns that use rare earth mining as a pretext to capture spaces that have historically fallen beyond the grasp of centralized power These include legally and logistically forbidding locations in the Amazon Greenland and Afghanistan and on the Moon Drawing on ethnographic archival and interview data gathered in local languages and offering possible solutions to the problems it documents this book examines the production of the rare earth frontier as a place a concept and a zone of contestation sacrifice and transformation U S NEWS ULTIMATE COLLEGE DIRECTORY 2004 MCGRATH ANNE (EDITOR), 2003 *Human Compatible* Stuart Jonathan Russell, 2019 A leading artificial intelligence researcher lays out a new approach to AI that will enable people to coexist successfully with increasingly intelligent machines Encyclopedia of Mathematical Geosciences B. S. Daya Sagar, Qiuming Cheng, Jennifer McKinley, Frits Agterberg, 2023-07-13 The Encyclopedia of Mathematical Geosciences is a complete and authoritative reference work It provides concise explanation on each term that is related to Mathematical Geosciences Over 300 international scientists each expert in their specialties have written around 350 separate articles on different topics of mathematical geosciences including contributions on Artificial Intelligence Big Data Compositional Data Analysis Geomathematics Geostatistics Geographical Information Science Mathematical Morphology Mathematical Petrology Multifractals Multiple Point Statistics Spatial Data Science Spatial Statistics and Stochastic Process Modeling Each topic incorporates cross referencing to related articles and also has its own reference list to lead the reader to essential articles within the published literature The entries are arranged alphabetically for easy access and the subject and author indices are comprehensive and extensive Leave no child behind UNESCO, 2022-06-20 To leave no child behind UNESCO developed the first global report of this scope on boys disengagement from education bringing together qualitative and quantitative evidence from over 140 countries This report provides an overview on the global situation on boys disengagement from and disadvantage in education It identifies factors influencing boys participation progression and learning outcomes in education It also analyses responses by governments and partners and examines promising policies and programmes Finally it includes recommendations on how to engage boys with education and address disadvantage While girls continue to face

severe disadvantages and inequalities in education the report shows that boys in many countries are at greater risk than girls of repeating grades failing to complete different education levels and having poorer learning outcomes in school. No less than 132 million boys of primary and secondary school age are out of school. They urgently require support. As this report shows, supporting boys does not mean that girls lose out and vice versa. Addressing boys' disengagement not only benefits boys' learning, employment opportunities, income and well-being; it is also highly beneficial for achieving gender equality and desirable economic, social and health outcomes.

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web an alternative approach is to use two stage compressors and two stage turbines in order to reduce the rotational speed

and improve the dynamic behaviour of the micro gas turbine allowing for

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web axial flow turbines 2 d theory fig 4 5 velocity diagram and mollier diagram for a zero reaction turbine stage $\tan \alpha = 0$ if

$32 \cdot 32 \cdot 2 \cdot r \cdot c \cdot x \cdot u \cdot \beta \cdot \beta \cdot \beta$ zero reaction stage

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web degree of reaction zero reaction stage let us first discuss the special case of zero reaction according to the definition of reaction when $\Lambda = 0$ equation upper reveals that $h_1 = h_2$ and equation lower that $\beta_1 = \beta_2$ fifty percent reaction stage β_2 and the velocity diagram is symmetrical because of symmetrical symmetry it is also

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web jun 2 2018 this video provides the basic constructional details and nomenclature of various terms used in velocity diagram of reaction turbine derivation of work done of reaction turbine is also done in

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web may 22 2019 the main distinction is the manner in which the steam is expanded as it passes through the turbine impulse turbine and reaction turbine steam turbine types based on blade geometry and energy conversion process are impulse turbine and reaction turbine

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web velocity stage diagram for reaction turbine the diagram illustrated is symmetrical showing equal acceleration in both fixed and moving blades and hence this diagram illustrates the condition of 50 reaction 2

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web 701 subscribers 174 views 2 years ago reaction turbines in reaction turbines the steam expands in both stationary and moving blades in this case stationary blades act as nozzle for the next

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web 3 mixed flow turbines radial flow reaction turbines are those turbines in which water flows in the velocity diagrams for francis turbine u_1 peripheral speed of the runner at inlet u_2

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web the reaction turbine diagram is shown below reaction turbine in this type of turbine when the water enters the turbine's wheel with some pressure supplies above the vanes then turbine's wheel moves completely may be submerged under the tailrace or may discharge into the atmosphere

chapter eight reaction turbine - May 15 2023

web the reaction turbine may be classified into the following three types 1 radial flow reaction turbine 2 axial flow reaction turbine 3 mixed flow reaction turbine 8 4 radial flow reaction turbine it is the turbine in which the flow is radial the radial turbine may be subscribed into two types

reaction turbine an overview sciencedirect topics - Jun 16 2023

web the 50 reaction turbine has been used widely and has special significance the velocity diagram of a 50 reaction is symmetrical and for the maximum utilization factor the exit velocity v_2 must be axial figure 2 40 shows a velocity diagram of a 50 reaction turbine and the effect on the utilization factor

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web $p_1 v_1 u_1 v_2$ $2 g z_1 q p_2 v_2 u_2 v_2$ $2 g z_2 w p_1 v_1 u_1 h_1$ enthalpy of steam at inlet $p_2 v_2 u_2 h_2$ enthalpy of steam at exit $h_1 v_2$ $2 g z_1 q h_2 v_2$ $2 g z_2 w$ generally changes in potential energy are negligible $z_1 z_2$ if no heat is supplied from the surroundings then $q = 0$

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web velocity diagram fig 7 velocity diagram of pressure compounded reaction turbine the velocity diagram given in figure 7 gives a detail about the various components of steam velocity and blade velocity symbols have the same meaning as above see also pressure compounding in turbines references

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web aug 23 2022 types of reaction turbine the reaction turbines may be classified into the following three types depending upon the direction of the flow of water through the wheel types of reaction turbine are radial flow turbines axial flow turbines mixed flow turbines 1 radial flow turbines

what is mixed flow turbine diagram example linuip linquip - Dec 30 2021

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