

Answer all questions on the paper/answer book provided.
A scientific calculator may be used.

QUESTION 1

There are four possible options for each answer in the following questions. Each question has only ONE correct answer. Choose the correct answer and write only A, B, C or D next to the question number.

- 1.1 A compound consists of ions X^{2+} and Y^{3-} . A possible formula for the compound could be:
- A $3X2Y$
 - B X_2Y_3
 - C X_3Y_2
 - D $(XY)_6$
- (2)
- 1.2 Which of the following is not a characteristic of a physical change:
- A no new products are formed
 - B changes can be reversed
 - C observable with the naked eye
 - D the parts of the substance lose their chemical identity
- (2)
- 1.3 Ionic bonding occurs between:
- A two non-metals
 - B two metals
 - C a metal and a non-metal
 - D a metal and a semi-metal
- (2)
- 1.4 Khumalo heats chocolate in a double boiler and observes the changes. The most accurate conclusion to his experiment is:
- A Chocolate undergoes a chemical change when it is heated
 - B Chocolate undergoes a physical change when it is heated
 - C Chocolate decomposes into its constituent components when heated
 - D Chocolate gives off latent energy when it melts
- (2)

Physical Science Control Test Term 3

L Cohen



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Physical Science Mr. Rohit Manglik, 2024-07-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Study and Master Agricultural Sciences Grade 12 CAPS Teacher's File Altus Strydom, Henricho Ferreira, Peter J. Holmes, 2014-06-26 Study Master Agricultural Sciences Grade 12 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement CAPS This new and easy to use course helps learners to master essential content and skills in Agricultural Sciences NASA Tech Briefs, 1986

EPA-430/1, 1979-05 **Testing of Body Armor Materials** National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Testing of Body Armor Materials for Use by the U.S. Army—"Phase III, 2012-07-21 In 2009 the Government Accountability Office GAO released the report Warfighter Support Independent Expert Assessment of Army Body Armor Test Results and Procedures Needed Before Fielding which commented on the conduct of the test procedures governing acceptance of body armor vest plate inserts worn by military service members This GAO report as well as other observations led the Department of Defense Director Operational Test Evaluation to request that the National Research Council NRC Division on Engineering and Physical Sciences conduct a three phase study to investigate issues related to the testing of body armor materials for use by the U S Army and other military departments Phase I and II resulted in two NRC letter reports one in 2009 and one in 2010 This report is Phase III in the study Testing of Body Armor Materials Phase III provides a roadmap to reduce the variability of clay processes and shows how to migrate from clay to future solutions as well as considers the use of statistics to permit a more scientific determination of sample sizes to be used in body armor testing This report also develops ideas for revising or replacing the Prather study methodology as well as reviews comments on methodologies and technical approaches to military helmet testing Testing of Body Armor Materials Phase III also considers the possibility of combining various national body armor testing standards

University Curricula in the Marine Sciences and Related Fields United States. Navy Department. Office of the Oceanographer of the Navy, 1971 **Complete Comparator Calibration** Lawrence W. Fritz, 1973 **Chemical News and Journal of Physical Science**, 1908 The Chemical News and Journal of Physical Science, 1913 **Recapturing NASA's Aeronautics Flight Research Capabilities** National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Committee to Assess NASA's Aeronautics Flight Research Capabilities, 2012-06-27 In the five decades since NASA was created the agency has sustained its legacy from the National Advisory Committee on Aeronautics NACA in playing a major role in U S aeronautics research and has contributed

substantially to United States preeminence in civil and military aviation This preeminence has contributed significantly to the overall economy and balance of trade of the United States through the sales of aircraft throughout the world NASA s contributions have included advanced flight control systems de icing devices thrust vectoring systems wing fuselage drag reduction configurations aircraft noise reduction advanced transonic airfoil and winglet designs and flight systems Each of these contributions was successfully demonstrated through NASA flight research programs Equally important the aircraft industry would not have adopted these and similar advances without NASA flight demonstration on full scale aircraft flying in an environment identical to that which the aircraft are to operate in other words flight research Flight research is a tool not a conclusion It often informs simulation and modeling and wind tunnel testing Aeronautics research does not follow a linear path from simulation to wind tunnels to flying an aircraft The loss of flight research capabilities at NASA has therefore hindered the agency s ability to make progress throughout its aeronautics program by removing a primary tool for research Recapturing NASA s Aeronautics Flight Research Capabilities discusses the motivation for NASA to pursue flight research addressing the aspects of the committee s task such as identifying the challenges where research program success can be achieved most effectively through flight research The report contains three case studies chosen to illustrate the state of NASA ARMD These include the ERA program and the Fundamental Research Program s hypersonics and supersonics projects Following these case studies the report describes issues with the NASA ARMD organization and management and offers solutions In addition the chapter discusses current impediments to progress including demonstrating relevancy to stakeholders leadership and the lack of focus relative to available resources Recapturing NASA s Aeronautics Flight Research Capabilities concludes that the type and sophistication of flight research currently being conducted by NASA today is relatively low and that the agency s overall progress in aeronautics is severely constrained by its inability to actually advance its research projects to the flight research stage a step that is vital to bridging the confidence gap NASA has spent much effort protecting existing research projects conducted at low levels but it has not been able to pursue most of these projects to the point where they actually produce anything useful Without the ability to actually take flight NASA s aeronautics research cannot progress cannot make new discoveries and cannot contribute to U S aerospace preeminence

Scientific and Technical Aerospace Reports ,1984 *World Congress on Medical Physics and Biomedical Engineering*
September 7 - 12, 2009 Munich, Germany Olaf Dössel,Wolfgang C. Schlegel,2010-01-04 Present Your Research to the World
The World Congress 2009 on Medical Physics and Biomedical Engineering the triennial scientific meeting of the IUPESM is the world s leading forum for presenting the results of current scientific work in health related physics and technologies to an international audience With more than 2 800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009 Medical physics biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades As new key technologies arise with

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web we utilize the equation that relate amount remaining initial mass and number of half lives $n = \frac{\ln \left(\frac{N_0}{N} \right)}{\ln 2}$ 125 g 5 what is the half life of an isotope that is 80 remained after 16 days solution remaining 80 100 therefore $n = \frac{\ln \left(\frac{100}{80} \right)}{\ln 2}$ now using the half life equation in example 1 we have

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web section learning objectives by the end of this section you will be able to do the following explain radioactive half life and its role in radiometric dating calculate radioactive half life and solve problems associated with radiometric dating section key terms half life and the rate of radioactive decay unstable nuclei decay

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web solution if we compare the time that has passed to the isotope s half life we note that 44 0 s is exactly 4 half lives so using the previous equation n 4 substituting and solving results in the following less than one third of a gram of 20 f remains skill building exercise the half life of 44 ti is 60 0 y

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web solution 7 2 2 4 3 half lives 1 2 0 125 the amount remaining after 3 half lives 100 0 g x 0 125 12 5 g remaining problem 2 pd 100 has a half life of 3 6 days if one had 6.02×10^{23} atoms at the start how many atoms would be present after 20 0 days solution 20 0 3 6 5 56 half lives

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