



NATIONAL
SENIOR CERTIFICATE

GRADE 11

NOVEMBER 2020

PHYSICAL SCIENCES P2
(CHEMISTRY)
EXEMPLAR

Duration: 120
Time: 1 hour



The question paper consists of 12 pages, including 4 extra sheets.
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QUESTION 8

PHYSICAL SCIENCES PAPER 2

ACID AND BASES

GRADE 11

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QUESTION 8: ACID AND BASES (20)

8.1. Draw a potential energy diagram for the reaction represented by

The following equation shown on the page:

a. Heat of this reaction (20)
b. Activation energy (10)

QUESTION 8 (Start on a NEW page)

8.2. Sodium hydroxide is an ionic compound with the following percentage composition:

Na 40%, O 52%, H 6%

The molar mass of the compound is 40 g mol⁻¹

8.2.1. Calculate the mass percentage of Na (10)
8.2.2. Calculate the number of moles of NaOH in 20 g (10)
8.2.3. Calculate the volume of NaOH in 20 g (10)

8.3. Concentrated sulphuric acid is a mixture of sulphuric acid and water. It is a mixture of 98% sulphuric acid and 2% water. Calculate the mass of sulphuric acid in 100 g of the mixture.

8.3.1. Calculate the mass of sulphuric acid in 100 g (10)
8.3.2. Calculate the concentration of the sulphuric acid in 100 g (10)

8.4. Sodium hydroxide is used in the production of soap. The reaction is shown below. Calculate the mass of sodium hydroxide in 100 g of the mixture.

$2\text{NaOH} + \text{H}_2\text{SO}_4 \rightarrow \text{Na}_2\text{SO}_4 + 2\text{H}_2\text{O}$

Calculate the volume of sulphuric acid (10) that would be produced in 100 g of sodium hydroxide mixture.



Virtual Tutorship

Physical Sciences Paper 2 November 20memorandum

Ian Douglas



Physical Sciences Paper 2 November 20memorandum:

The Unpredictable Certainty National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Commission on Physical Sciences, Mathematics, and Applications, NII 2000 Steering Committee, 1998-03-05 This book contains a key component of the NII 2000 project of the Computer Science and Telecommunications Board a set of white papers that contributed to and complements the project's final report *The Unpredictable Certainty Information Infrastructure Through 2000* which was published in the spring of 1996 That report was disseminated widely and was well received by its sponsors and a variety of audiences in government industry and academia Constraints on staff time and availability delayed the publication of these white papers which offer details on a number of issues and positions relating to the deployment of information infrastructure

NASA and the Long Civil Rights Movement Brian C. Odom, Stephen P. Waring, 2022-04-12 Examining the ways in which NASA's goal of space exploration both conflicted and aligned with the cause of racial equality this volume provides new insights into the complex relationship between the space program and the civil rights movement in the Jim Crow South and abroad

One Nation Under Gold: How One Precious Metal Has Dominated the American Imagination for Four Centuries James Ledbetter, 2017-06-13 *One Nation Under Gold* examines the countervailing forces that have long since divided America whether gold should be a repository of hope or a damaging delusion that has long since derailed the rational investor Worshipped by Tea Party politicians but loathed by sane economists gold has historically influenced American monetary policy and has exerted an often outsized influence on the national psyche for centuries Now acclaimed business writer James Ledbetter explores the tumultuous history and larger than life personalities from George Washington to Richard Nixon behind America's volatile relationship to this hallowed metal and investigates what this enduring obsession reveals about the American identity Exhaustively researched and expertly woven *One Nation Under Gold* begins with the nation's founding in the 1770s when the new republic erupted with bitter debates over the implementation of paper currency in lieu of metal coins Concerned that the colonies' thirteen separate currencies would only lead to confusion and chaos some Founding Fathers believed that a national currency would not only unify the fledgling nation but provide a perfect solution for a country that was believed to be lacking in natural silver and gold resources Animating the Wild West economy of the nineteenth century with searing insights Ledbetter brings to vivid life the actions of Whig president Andrew Jackson one of gold's most passionate advocates whose vehement protest against a standardized national currency would precipitate the nation's first feverish gold rush Even after the establishment of a national paper currency the virulent political divisions continued reaching unprecedented heights at the Democratic National Convention in 1896 when presidential aspirant William Jennings Bryan delivered the legendary Cross of Gold speech that electrified an entire convention floor stoking the fears of his agrarian supporters While Bryan never amassed a wide enough constituency to propel his cause into the White House America's stubborn attachment to gold

persisted wreaking so much havoc that FDR in order to help rescue the moribund Depression economy ordered a ban on private ownership of gold in 1933. In fact so entrenched was the belief that gold should uphold the almighty dollar it was not until 1973 that Richard Nixon ordered that the dollar be delinked from any relation to gold completely overhauling international economic policy and cementing the dollar's global significance. More intriguing is the fact that America's exuberant fascination with gold has continued long after Nixon's historic decree as in the profusion of late night television ads that appeal to goldbug speculators that proliferate even into the present. One Nation Under Gold reveals as much about American economic history as it does about the sectional divisions that continue to cleave our nation ultimately becoming a unique history about economic irrationality and its influence on the American psyche. Fire Across the Desert Peter Morton, 1989. Cities Ian Douglas, 2013-05-30. Cities are amongst our greatest creations. Yet at the start of the twenty first century there is increasing concern over their unchecked expansion and the detrimental effect this is having on the planet as induced climate change and ever increasing demands upon the world's resources take effect. How can we make the world's cities more sustainable? Ian Douglas tells the story of cities why they exist how they have evolved the problems they have encountered and those they will face as our century progresses. Global in geographical coverage and ranging from the cities of the classical world to the megacities of today it is the first comprehensive environmental history of cities. Physical Science, 1981.

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