

# PHYSICAL SCIENCES P.2

## MEMO-2024



basic education

Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

G.12

NATIONAL  
SENIOR CERTIFICATE

Diagram on page 9 is redrawn below for easy reference.



Changes to the conditions of equilibrium are made at different times. The graph shows the results obtained. X, Y and Z represent the gases in the above reaction.



2.1.1 Define for both chemical equilibrium

Use the graph to answer the questions below.

4.5 Write down the TYPE of elimination in reaction III.

4.6 Compounds R and T are positional isomers.

The inorganic reagents shown below are available for reactions IV and V.

Br <sub>2</sub>	H <sub>2</sub> SO <sub>4</sub> (conc.)	NaOH(aq.)	HBr	H <sub>2</sub>
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# Memorandum Gradelife Science Paper2 2014

**Karen J. Maschke, Michael K. Gusmano**

## **Memorandum Gradelife Science Paper2 2014:**

**The Complete Book of Colleges, 2017 Edition** Princeton Review, 2016-07 The MEGA GUIDE to 1 355 COLLEGES AND UNIVERSITIES No one knows colleges better than The Princeton Review Inside The Complete Book of Colleges 2017 Edition you ll find meticulously researched information that will help you narrow the search for the best college for you Each of the 1 355 user friendly profiles answers your questions including How much are tuition and other student fees and costs What types of financial aid are available and when are the applications due What do admissions officers most look for in test scores and recommendations Which majors are the most popular and have the highest enrollment What is the housing like and how accessible is technology on campus What are the key campus organizations athletics and student activities How selective is the school Plus Indexes based on cost selectivity and size that will help you narrow your search Get a leg up on your college search with this easy to use comprehensive and savvy guidebook from the experts at The Princeton Review

**The Complete Book of Colleges, 2018 Edition** Princeton Review, 2017-07 Includes information on admissions cost financial aid required and recommended admissions criteria cost breakdowns and types of financial aid for 1 355 colleges and universities

**The Rocket Lab** Michael G. Smith, 2023-05-15 The Rocket Lab Maurice Zucrow Purdue University and America s Race to Space focuses on the golden era of space exploration between 1946 and 1966 specifically the life and times of Purdue University s Dr Maurice J Zucrow a pioneering teacher and researcher in aerospace engineering Zucrow taught America s first university course in jet and rocket propulsion wrote the field s first textbook and established the country s first educational Rocket Lab He was part of a small circle of innovators who transformed Purdue into the country s largest engineering university which became a cradle of astronauts Taking a chronological and thematic approach The Rocket Lab weaves between the local and national drawing in rival universities especially Harvard MIT Princeton and Caltech Also covered is Zucrow s role in the national project system of research and development through World War II and the Cold War At Aerojet he was one of the country s original project engineers dedicated to scientific technical expertise and the stepwise approach He made vanguard power plant contributions to the Northrop Flying Wing as well as the Corporal Nike and Atlas missiles among others Zucrow s work in propulsion helped to improve the country s arsenal of ballistic missiles and space launchers and as a teacher he educated the first generation of aerospace engineers This book elevates Zucrow and the central role he played in getting the United States to space

**An ^AAfrican American Dilemma** Zoë Burkholder, 2021-07-11 Presenting a revealing historical perspective on today s charged schooling choices An African American Dilemma illuminates the tensions between school integration and separation that have shaped the long history of black struggles for equal education and civil rights in the North

*Debating Modern Medical Technologies* Karen J. Maschke, Michael K. Gusmano, 2018-09-14 This book analyzes policy fights about what counts as good evidence of safety and effectiveness when it comes to new health care technologies in the United States and what political decisions mean for

patients and doctors Medical technologies often promise to extend and improve quality of life but come with many questions Are they safe and effective Are they worth the cost When should they be allowed on the market and when should Medicare Medicaid and private insurance companies be required to pay for drugs devices and diagnostic tests Using case studies of disputes about the value of mammography screening genetic testing for disease risk brain imaging technologies to detect biomarkers associated with Alzheimer s disease cell based therapies and new expensive drugs Maschke and Gusmano illustrate how scientific disagreements about what counts as good evidence of safety and effectiveness are often swept up in partisan fights over health care reform and battles among insurance and health care companies physicians and patient advocates Debating Modern Medical Technologies The Politics of Safety Effectiveness and Patient Access reveals stakeholders differing values and interests regarding patient choice physician autonomy risk assessment government intervention in medicine and technology assessment and scientific innovation as a driver of national and global economies It will help readers to understand the nature and complexity of past and current policy disagreements and their effects on patients

The Use of Dispersants in Marine Oil Spill Response National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Ocean Studies Board, Committee on the Evaluation of the Use of Chemical Dispersants in Oil Spill Response, 2020-05-24 Whether the result of an oil well blowout vessel collision or grounding leaking pipeline or other incident at sea each marine oil spill will present unique circumstances and challenges The oil type and properties location time of year duration of spill water depth environmental conditions affected biomes potential human community impact and available resources may vary significantly Also each spill may be governed by policy guidelines such as those set forth in the National Response Plan Regional Response Plans or Area Contingency Plans To respond effectively to the specific conditions presented during an oil spill spill responders have used a variety of response options including mechanical recovery of oil using skimmers and booms in situ burning of oil monitored natural attenuation of oil and dispersion of oil by chemical dispersants Because each response method has advantages and disadvantages it is important to understand specific scenarios where a net benefit may be achieved by using a particular tool or combination of tools This report builds on two previous National Research Council reports on dispersant use to provide a current understanding of the state of science and to inform future marine oil spill response operations The response to the 2010 Deepwater Horizon spill included an unprecedented use of dispersants via both surface application and subsea injection The magnitude of the spill stimulated interest and funding for research on oil spill response and dispersant use in particular This study assesses the effects and efficacy of dispersants as an oil spill response tool and evaluates trade offs associated with dispersant use

*Yearbook of International Organizations*, 1967 Edition for 1983 84 published in 3 vols vol 1 Organization descriptions and index vol 2 International organization participation vol 3 Global action networks edition for 2012 2013 published in 5 vols vol 4 International organization bibliography and resources vol 4 Statistics visualizations

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