

# PHYSICAL SCIENCES

## PAPER 2

## MAY-JUNE

## GRADE 12



Department of  
Basic Education  
REPUBLIC OF SOUTH AFRICA

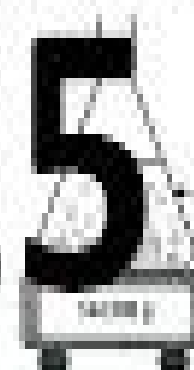
# MEMO

peroxide, hydrogen peroxide, and DICCNO<sub>2</sub> show  
the effect of concentration on the rate

$\text{H}_2\text{O}_2 + \text{H}^+ + \text{O}_2\text{O}_2$

The apparatus used for this investigation is shown below.

# 2025



Flask with reaction  
mixture

Balance

- 0.1 Explain the term rate of reaction.
- 0.2 Write down ONE controlled variable for this investigation.

# Physical Science Paper June 2memorandum

**Huangqi Zhang**



## **Physical Science Paper June 2**memorandum:

*Transnational Perspectives on Curriculum History* Gary McCulloch, Ivor Goodson, Mariano González-Delgado, 2019-11-22

This book offers a remarkable range of research that emphasises the need to analyse the shaping of curricula under historical social and political variables Teachers life stories the Cold War as a contextual element that framed curricular transformations in the US and Europe and the study of trends in education policy at transnational level are issues addressed throughout The book presents new lines of work offering multidisciplinary perspectives and provides an overview of how to move forwards The book brings together the work of international specialists on Curriculum History and presents research that offers new perspectives and methodologies from which to approach the study of the History of Education and Educational Policy It offers new debates which rethink the historical study of the curriculum and offers a strong interdisciplinary approach with contributions across Education History and the Social Sciences This book will be of great interest for academics and researchers in the fields of education and curriculum studies It will also appeal to educational professionals teachers and policy makers

**United States Government Publications Monthly Catalog** ,1950

**Monthly Catalogue, United States Public Documents** ,1970 *The Story of the Rockefeller Foundation* Raymond B.

Fosdick, 2017-09-29 Since its original publication in 1952 Fosdick's book has been the single most reliable treatment of one of the most important philanthropies in the United States and indeed the world Fosdick served as president of the foundation for twelve years from 1936 to 1948 when it was the largest grant making endowment in the world As Steven Wheatley notes in his valuable new introduction in part *The Story of the Rockefeller Foundation* was intended as an instrument of institutional self defense When it was written the foundation community was under mounting political attack from the right and the book was meant to help balance the Scales by cataloging the foundation's good works As a deliberate self portrait the book conceals as much as it reveals while in the process it reveals a good deal about the author Fosdick sees politics like bureaucracy as perhaps an avoidable problem and not an inevitable consequence of foundation activity He sees foundations as engaging in the application of scientific technical and organizational solutions to public problems through a venture capital approach to discovering how to resolve them Fosdick's higher ground approach became established philanthropic practice far beyond the Rockefeller Foundation Consequently this volume is significant as an institutional history as well as a charter for American foundations

**Nugget Coombs** Tim Rowse, 2005-09-27 H C Coombs was one of the most influential Australians of the twentieth century Born in 1906 he is best known as the governor of the Reserve Bank but the breadth of his activities and his commitment to public life until his death is unsurpassed Tim Rowse traces Coombs life from his childhood in Western Australia to his many roles as policy maker change agent advocate and adviser Particularly interested in Coombs as an economist Tim Rowse shows that a key motif in his life as a public servant was to create an economic rationality among the political elite that was socially integrative and that looked beyond the strictures of economics to

environmental sustainability scientific and artistic creativity This 2002 book covers Coombs life from birth to death providing intriguing insights into the life of one of Australia s most influential people      *How We Teach Science* John L.

Rudolph,2019-06-01 A former Wisconsin high school science teacher makes the case that how and why we teach science matters especially now that its legitimacy is under attack Why teach science The answer to that question will determine how it is taught Yet despite the enduring belief in this country that science should be taught there has been no enduring consensus about how or why This is especially true when it comes to teaching scientific process Nearly all of the basic knowledge we have about the world is rock solid The science we teach in high schools in particular laws of motion the structure of the atom cell division DNA replication the universal speed limit of light is accepted as the way nature works Everyone also agrees that students and the public more generally should understand the methods used to gain this knowledge But what exactly is the scientific method Ever since the late 1800s scientists and science educators have grappled with that question Through the years they ve advanced an assortment of strategies ranging from the laboratory method to the five step method to science as inquiry to no method at all *How We Teach Science* reveals that each strategy was influenced by the intellectual cultural and political circumstances of the time In some eras learning about experimentation and scientific inquiry was seen to contribute to an individual s intellectual and moral improvement while in others it was viewed as a way to minimize public interference in institutional science John Rudolph shows that how we think about and teach science will either sustain or thwart future innovation and ultimately determine how science is perceived and received by the public      **Glimpsing an Invisible Universe** Richard F. Hirsh,1983-10-13 This book deals with the evolution of X ray

astronomy during the initial phases of its development Three transformations of astronomy as a discipline are highlighted the augmentation of purely optical observations the emergence of federal funding as the dominant source of financial support and the greatly altered size and structure of the research community      *Public Papers of the Presidents of the United States* United States. President,1988 Containing the public messages speeches and statements of the President 1956 1992

**Rearming for the Cold War, 1945-1960** Elliott Vanveltner Converse,2012 Book Description The first publication in a multivolume series on the history of the acquisition of major weapon systems by the Department of Defense author Elliott Converse presents a meticulously researched overview of changes in acquisition policies organizations and processes within the United States military establishment during the decade and a half following World War II Many of the changes that shaped the nature and course of weapons research and development production and contracting through the end of the century were instituted between 1945 and 1960 many of the problems that have repeatedly challenged defense policymakers and acquisition professionals also first surfaced during these years This study is the first to combine the histories of the Office of the Secretary of Defense OSD and the military services into one account The volume is organized chronologically with individual chapters addressing the roles of OSD the Army Navy and Air Force in two distinct periods      Guide to U.S.

Government Publications Thomson Gale, 2005-08      California Earthquakes Carl-Henry Geschwind, 2003-04-30 Winner of the Book Prize of the Forum for the History of Science in America from the History of Science Society In 1906 after an earthquake wiped out much of San Francisco leading California officials and scientists described the disaster as a one time occurrence and assured the public that it had nothing to worry about California Earthquakes explains how over time this attitude changed and Californians came to accept earthquakes as a significant threat as well as to understand how science and technology could reduce this threat Carl Henry Geschwind tells the story of the small group of scientists and engineers who in tension with real estate speculators and other pro growth forces private and public developed the scientific and political infrastructure necessary to implement greater earthquake awareness Through their political connections these reformers succeeded in building a state apparatus in which regulators could work together with scientists and engineers to reduce earthquake hazards Geschwind details the conflicts among scientists and engineers about how best to reduce these risks and he outlines the dramatic twentieth century advances in our understanding of earthquakes their causes and how we can try to prepare for them Tracing the history of seismology and the rise of the regulatory state and of environmental awareness California Earthquakes tells how earthquake hazard management came about why some groups assisted and others fought it and how scientists and engineers helped shape it      **Federal Register** , 2012-06      Resources in education , 1984-12      **The Chemical News and Journal of Physical Science** , 1883      *Scapins* Supreme Commander for the Allied Powers, 1952      **RAOP** , 1958      Dental Science in a New Age Ruth Roy Harris, 1989      *Official Gazette of the United States Patent and Trademark Office* , 1998      **Critical Appraisal of Physical Science as a Human Enterprise** Mansoor Niaz, 2009-02-07 It is generally believed that doing science means accumulating empirical data with no or little reference to the interpretation of the data based on the scientist's theoretical framework or presuppositions Holton 1969a has deplored the widely accepted myth experimenticism according to which progress in science is presented as the inexorable result of the pursuit of logically sound conclusions from unambiguous experimental data Surprisingly some of the leading scientists themselves Millikan is a good example have contributed to perpetuate the myth with respect to modern science being essentially empirical that is carefully tested experimental facts free of a priori conceptions leading to inductive generalizations Based on the existing knowledge in a field of research a scientist formulates the guiding assumptions Laudan et al 1988 presuppositions Holton 1978 1998 and hard core Lakatos 1970 of the research program that constitutes the imperative of presuppositions which is not abandoned in the face of anomalous data Laudan and his group consider the following paraphrase of Kant by Lakatos as an important guideline philosophy of science without history of science is empty Starting in the 1960s this historical school has attempted to redraw and replace the positivist or logical empiricist image of science that dominated for the first half of the twentieth century Among other aspects one that looms large in these studies is that of guiding assumptions and has considerable implications for the main thesis of this monograph Chapter 2      **An Ocean in**

**Common** Gary E. Weir, 2001 Through two victorious world conflicts and a Cold War the U S Navy and American ocean scientists drew ever closer converting an early marriage of necessity into a relationship of astonishing achievement Beginning in 1919 Gary Weir's *An Ocean in Common* traces the first forty two years of their joint quest to understand each other and the deep ocean Early in the twentieth century American naval officers questioned the tactical and strategic significance of applied ocean science demonstrating the gap between this kind of knowledge and that deemed critical to naval warfare At the same time scientists studying the ocean labored in their inadequately funded discreet disciplines seemingly content to keep naval warfare at arm's length German U boat success in World War I changed these views fundamentally bringing ocean science insights to an increasing number of naval objectives Driven primarily by anti submarine priorities the physics chemistry and geology of the ocean more than its biology became the early focus of American ocean studies The World War II experience solidified the Navy's relationship with ocean scientists and the years after 1945 found the American military investing heavily in both applied and basic research Today oceanography is a permanent resident on the bridge of American fighting ships and the Navy continues to provide much of the impetus and funding for fundamental research in both naval and civilian laboratories In *An Ocean in Common* Gary Weir focuses on the compelling motives and carefully engineered course that brought scientists and naval officers together across a considerable cultural divide to achieve a more comprehensive understanding of one another and the world ocean Weir details how this alliance laid the powerful multidisciplinary foundation for long range ocean communication and surveillance modern submarine warfare deep submergence and the emergence of oceanography and ocean engineering as independent and vital fields of study

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