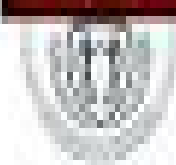


PHYSICAL SCIENCES

PAPER 2

MAY-JUNE

GRADE 12



Department of
Basic Education
REPUBLIC OF SOUTH AFRICA

MEMO

peroxide, hydrogen peroxide, and DICCNO₂ 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



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

Physical Science Paper 2 September 2014 Memo

Amanda L. Golbeck



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Freedom's Laboratory Audra J. Wolfe, 2020-08-04 The Cold War ended long ago but the language of science and freedom continues to shape public debates over the relationship between science and politics in the United States Scientists like to proclaim that science knows no borders Scientific researchers follow the evidence where it leads their conclusions free of prejudice or ideology But is that really the case In *Freedom's Laboratory* Audra J Wolfe shows how these ideas were tested to their limits in the high stakes propaganda battles of the Cold War Wolfe examines the role that scientists in concert with administrators and policymakers played in American cultural diplomacy after World War II During this period the engines of US propaganda promoted a vision of science that highlighted empiricism objectivity a commitment to pure research and internationalism Working both overtly and covertly wittingly and unwittingly with governmental and private organizations scientists attempted to decide what exactly they meant when they referred to scientific freedom or the US ideology More frequently however they defined American science merely as the opposite of Communist science Uncovering many startling episodes of the close relationship between the US government and private scientific groups *Freedom's Laboratory* is the first work to explore science's link to US propaganda and psychological warfare campaigns during the Cold War Closing in the present day with a discussion of the 2017 March for Science and the prospects for science and science diplomacy in the Trump era the book demonstrates the continued hold of Cold War thinking on ideas about science and politics in the United States

Bulk Collection of Signals Intelligence National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Responding to Section 5(d) of Presidential Policy Directive 28: The Feasibility of Software to Provide Alternatives to Bulk Signals Intelligence Collection, 2015-03-24 The Bulk Collection of Signals Intelligence Technical Options study is a result of an activity called for in Presidential Policy Directive 28 PPD 28 issued by President Obama in January 2014 to evaluate U S signals intelligence practices The directive instructed the Office of the Director of National Intelligence ODNI to produce a report within one year assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection ODNI asked the National Research Council NRC the operating arm of the National Academy of Sciences and National Academy of Engineering to conduct a study which began in June 2014 to assist in preparing a response to the President Over the ensuing months a committee of experts appointed by the Research Council produced the report

This Changes Everything Naomi Klein, 2014-09-16 With strong first hand reporting and an original provocative thesis Naomi Klein returns with this book on how the climate crisis must spur transformational political change

The War Report Annyssa Bellal, 2015-12-10 This War Report provides detailed information on every armed conflict which took place during 2014 offering an unprecedented overview of the nature range and impact of these conflicts and the legal issues they created In Part I the Report describes its criteria for the identification and classification of armed

conflicts under international law and the legal consequences that flow from this classification It sets out a list of armed conflicts in 2014 categorising each as international non international or a military occupation with estimates of civilian and military casualties In Part II each of these conflicts are examined in more detail with an overview of the belligerents means and methods of warfare the applicable treaties and rules and any prosecutions for investigations into or robust allegations of war crimes Part III of the Report provides detailed thematic analysis of key legal developments which arose in the context of these conflicts allowing for a more in depth reflection on cross cutting questions and controversies The Report gives a full and accessible overview of armed conflicts in 2014 It should be the first port of call for everyone working in the field

Team-Based Care for Heart Failure, An Issue of Heart Failure Clinics Gregg C. Fonarow, 2015-07-13 This issue of Heart Failure Clinics examines the critical role of team based care in the management of patients with heart failure Articles address Team Based Care for Prevention Patients Hospitalized with Heart Failure Transitions of Care Outpatients Managing Cardiac Comorbidities Managing Non cardiac Conditions Cardiac Rehabilitation and Exercise Training External Telemonitoring Ambulatory Hemodynamic Cardiac Device Monitoring Advanced Heart Failure and Palliative and End of Life Care

ACPES 2022 Benny Aprial M, Alan Alfiansyah Putra Karo-karo, Eka Abdurrahman, 2023-06-01 Proceedings of The 8th ACPES INTERNATIONAL CONFERENCE 2022 ASEAN Council of Physical Education and Sport contain several papers that have been presented at a seminar with the theme The Evaluation and Growth of Physical Education Sport and Health in The New Normal Era This seminar was held on 28 30 October 2022 and was organized by the Sekolah Tinggi Olahraga dan Kesehatan Bina Guna and became a routine agenda every year The 8th ACPES INTERNATIONAL CONFERENCE 2022 ASEAN Council of Physical Education and Sport was realized this year by presenting various presenters lecturers researchers and students from universities both inside and outside Indonesia The 8th ACPES INTERNATIONAL CONFERENCE 2022 ASEAN Council of Physical Education and Sport presents 2 leading keynote speakers from Sport Science NIE NTU Singapore and University Of Nottingham Malaysia 6 Invited Speakers from University Sains Malaysia Universitas Negeri Semarang Sekolah Tinggi Olahraga dan Kesehatan Bina Guna Nanyang Technological University Mahasarakam University and Srinakarimwirot University In addition presenters for the parallel sessions came from various State and Private Universities Institutions Academies and Schools Some of them are those who have already sat and are about to take the oral exam The plenary speakers presented topics covering various disciplines They have provided a wealth of inspiring input on trending educational research topics around the world The hope is that all prospective lecturers and students will share the results of their research to improve teaching processes and quality as well as leadership This international seminar presented the results of research reviews and results of dedication carried out by researchers from various domestic and foreign agencies attended by 168 participants from 5 countries namely Malaysia Thailand the Philippines Singapore and Indonesia There were 66 papers that passed through a rigorous review process and were accepted

by the committee All papers reflect the scope of the Conference by following Physical Education Educational Model Global Issues in Education and Research Transformative Learning and Education Sports Education Sports Science and Educational Technology Management Curriculum Research and Development Innovative Educational Practices and Effective Technologies in the Classroom Education policy

Beyond Control James F. Barnett Jr., 2017-03-16 Beyond Control reveals the Mississippi as a waterway of change unnaturally confined by ever larger levees and control structures During the great flood of 1973 the current scoured a hole beneath the main structure near Baton Rouge and enlarged a pre existing football field size crater That night the Mississippi River nearly changed its course for a shorter and steeper path to the sea Such a map changing reconfiguration of the country s largest river would bear national significance as well as disastrous consequences for New Orleans and towns like Morgan City at the mouth of the Atchafalaya River Since 1973 the US Army Corps of Engineers Control Complex at Old River has kept the Mississippi from jumping out of its historic channel and plunging through the Atchafalaya Basin to the Gulf of Mexico Beyond Control traces the history of this phenomenon beginning with a major channel shift around 3 000 years ago By the time European colonists began to explore the Lower Mississippi Valley a unique confluence of waterways had formed where the Red River joined the Mississippi and the Atchafalaya River flowed out into the Atchafalaya Basin A series of human alterations to this potentially volatile web of rivers starting with a bend cutoff in 1831 by Captain Henry Miller Shreve set the forces in motion for the Mississippi s move into the Atchafalaya Basin Told against the backdrop of the Lower Mississippi River s impending diversion the book s chapters chronicle historic floods rising flood crests a changing strategy for flood protection and competing interests in the management of the Old River outlet Beyond Control is both a history and a close look at an inexorable living process happening now in the twenty first century

Equivalence Amanda L. Golbeck, 2017-04-28 Equivalence Elizabeth L. Scott at Berkeley is the compelling story of one pioneering statistician s relentless twenty year effort to promote the status of women in academe and science Part biography and part microhistory the book provides the context and background to understand Scott s masterfulness at using statistics to help solve societal problems In addition to being one of the first researchers to work at the interface of astronomy and statistics and an early practitioner of statistics using high speed computers Scott worked on an impressively broad range of questions in science from whether cloud seeding actually works to whether ozone depletion causes skin cancer Later in her career Scott became swept up in the academic women s movement She used her well developed scientific research skills together with the advocacy skills she had honed in such activities as raising funds for Martin Luther King Jr and keeping Free Speech Movement students out of jail toward policy making that would improve the condition of the academic workforce for women The book invites the reader into Scott s universe a window of inspiration made possible by the fact that she saved and dated every piece of paper that came across her desk

Technological Innovation in Legacy Sectors William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy misses opportunities for

innovation growth and job creation because of a neglected problem the resistance to innovation from Legacy sectors like energy manufacturing and health care which constitute most of our economy The book offers systematic strategies to overcome the structural obstacles to innovation in critically important Legacy sectors **Florida Springs** Christopher F. Meindl, 2024-10-15 This book provides a clear and comprehensive overview of the geography history science and politics of Florida s freshwater springs informing readers about the deep past and current issues facing these natural wonders of the state

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