

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.

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

Br ₂	H ₂ SO ₄ (conc.)	NaOH(aq.)	HBr	H ₂
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4.5 Write down the TYPE of elimination in reaction III.

4.6 Compounds R and T are positional isomers.

4.7 Identify the reagent used in reaction IV. (1)



4.8 Draw the half-cell reaction for the zinc electrode. (1)



4.9 Identify the reaction type.

Write a balanced chemical equation for the reaction.

4.10 Draw a half-cell reaction for the copper electrode. (1)

4.11 The simplified diagram below represents an electrochemical cell. The electrodes are made of copper.

25 March 2014 Physical Sciences Paper 2 Memorandum

Marilyn Irvin Holt



25 March 2014 Physical Sciences Paper 2 Memorandum:

Quantum Legacies David Kaiser, 2020-03-25 A series of engaging essays that explore iconic moments of discovery and debate in physicists ongoing quest to understand the quantum world The ideas at the root of quantum theory remain stubbornly famously bizarre a solid world reduced to puffs of probability particles that tunnel through walls cats suspended in zombielike states neither alive nor dead and twinned particles that share entangled fates For more than a century physicists have grappled with these conceptual uncertainties while enmeshed in the larger uncertainties of the social and political worlds around them a time pocked by the rise of fascism cataclysmic world wars and a new nuclear age In *Quantum Legacies* David Kaiser introduces readers to iconic episodes in physicists still unfolding quest to understand space time and matter at their most fundamental In a series of vibrant essays Kaiser takes us inside moments of discovery and debate among the great minds of the era Albert Einstein Erwin Schrödinger Stephen Hawking and many more who have indelibly shaped our understanding of nature as they have tried to make sense of a messy world Ranging across space and time the episodes span the heady 1920s the dark days of the 1930s the turbulence of the Cold War and the peculiar political realities that followed In those eras as in our own researchers ambition has often been to transcend the vagaries of here and now to contribute lasting insights into how the world works that might reach beyond a given researcher s limited view In *Quantum Legacies* Kaiser unveils the difficult and unsteady work required to forge some shared understanding between individuals and across generations and in doing so he illuminates the deep ties between scientific exploration and the human condition

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 **Threats to Mangrove Forests** Christopher Makowski, Charles W. Finkl, 2018-04-20 This book focuses on the worldwide threats to mangrove forests and the management solutions currently being used to counteract those hazards. Designed for the professional or specialist in marine science, coastal zone management, biology, and related disciplines, this work will appeal to those not only working to protect mangrove forests but also the surrounding coastal areas of all types. Examples are drawn from many different geographic areas including North and South America, India, and Southeast Asia. Subject areas covered include both human-induced and natural impacts to mangroves, intended or otherwise, as well as the efforts being made by coastal researchers to promote restoration of these coastal fringing forests. **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. **The Source of All Things** Reinhard Friedl, 2025-08-22 In the tradition of Henry Marsh's *Do No Harm*, Reinhard Friedl's *The Source of All Things* is a heart surgeon's personal investigation of the human heart, moving from his riveting clinical experiences to a more poetic understanding of its workings. The heart is our most important organ. Yet despite that, it has not changed since the appearance of *Homo sapiens* 300,000 years ago; it is also our most mysterious. In most human cultures, it is seen as the source of love, sympathy, joy, courage, strength, and wisdom. What if the heart could answer questions neurosciences can't begin to? Having witnessed the extraordinary complexity and unpredictability of human hearts in the operating theatre, each one individual like a fingerprint, heart surgeon Reinhard Friedl looked again at this primitive pump to reconcile it with his experiences from thousands of heart operations. In this book, he presents findings from various scientific disciplines such as secret connections of the heart and brain and their influence on emotions and consciousness. He reveals the miracle that is the heart that we speak about so often yet is strangely foreign to many human beings. Full of compelling patient stories, *The Source of All Things* ends with a plea that we recognize the heart's wisdom and adopt a more heart-centered way of living, leading to greater health and more joy. [This Changes Everything](#) Naomi Klein, 2014-09-16 The most important book yet from the author of the international bestseller *The Shock Doctrine*, a brilliant explanation of why the climate crisis challenges

us to abandon the core free market ideology of our time restructure the global economy and remake our political systems In short either we embrace radical change ourselves or radical changes will be visited upon our physical world The status quo is no longer an option In *This Changes Everything* Naomi Klein argues that climate change isn't just another issue to be neatly filed between taxes and health care It's an alarm that calls us to fix an economic system that is already failing us in many ways Klein meticulously builds the case for how massively reducing our greenhouse emissions is our best chance to simultaneously reduce gaping inequalities reimagine our broken democracies and rebuild our gutted local economies She exposes the ideological desperation of the climate change deniers the messianic delusions of the would-be geoengineers and the tragic defeatism of too many mainstream green initiatives And she demonstrates precisely why the market has not and cannot fix the climate crisis but will instead make things worse with ever more extreme and ecologically damaging extraction methods accompanied by rampant disaster capitalism Klein argues that the changes to our relationship with nature and one another that are required to respond to the climate crisis humanely should not be viewed as grim penance but rather as a kind of gift a catalyst to transform broken economic and cultural priorities and to heal long festering historical wounds And she documents the inspiring movements that have already begun this process communities that are not just refusing to be sites of further fossil fuel extraction but are building the next regeneration-based economies right now Can we pull off these changes in time Nothing is certain Nothing except that climate change changes everything And for a very brief time the nature of that change is still up to us

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

Non Linear Mathematics Vol. I Thomas L., Saaty, Joseph, Bram, 2014-12-22 We are surrounded and deeply involved in the natural world with non linear events which are not necessarily mathematical the authors write For example the nonlinear problem of pedalling a bicycle up and down a hillside On a grand scale the struggle for existence between two species one of which preys exclusively on the other This book is for mathematicians and researchers who believe that nonlinear mathematics is the mathematics of today it is also for economists engineers operations analysts the reader who has been thus bemused into an artificially linear conception of the universe Nonlinear Mathematics is the first attempt to consider the widest range of nonlinear topics found in the scattered literature Accessible to non mathematics professionals as well as college seniors and graduates it offers a discussion both particular and broad enough to stimulate research towards a unifying theory of nonlinear mathematics Ideas are presented according to existence and uniqueness theorems characterization e.g stability and asymptotic behavior construction of solutions convergence approximation and errors

The Human in Bits Kris Cohen, 2025-07-25 Kris Cohen examines black abstractionist painting to demonstrate how race and computation are intimately entangled in the graphic user interface of the personal computer

Cold War Kids Marilyn Irvin Holt, 2014-06-06 Today we take it for granted that political leaders and presidential administrations will address issues related to children and teenagers But in the not so distant past politicians had little to say and federal programs less to do with children except those of very specific populations This book shows how the Cold War changed all that Against the backdrop of the postwar baby boom and the rise of a distinct teen culture Cold War Kids unfolds the little known story of how politics and federal policy expanded their influence in shaping children's lives and experiences making way for the youth attuned political culture that we've come to expect In the first part of the twentieth century narrow and incremental policies focused on children were the norm And then in the postwar years

monumental events such as the introduction of the Salk vaccine or the Soviet launch of Sputnik delivered jolts to the body politic producing a federal response that included all children Cold War Kids charts the changes that followed making the mid twentieth century a turning point in federal action directly affecting children and teenagers With the 1950 and 1960 White House Conferences on Children and Youth as a framework Marilyn Irvin Holt examines childhood policy and children s experience in relation to population shifts suburbia divorce and family stability working mothers and the influence of television Here we see how the government driven by a Cold War mentality was becoming ever more involved in aspects of health education and welfare even as the baby boom shaped American thought promoting societal acceptance of the argument that all children not just the poorest and neediest merited their government s attention This period largely viewed as a time of stagnation in studies of children and childhood after World War II emerges in Holt s cogent account as a distinct period in the history of children in America **List** ,1948 [Handbook of Children in the Legal System](#) Ginger C.

Calloway,S. Margaret Lee,2021-08-25 This handbook brings together the relevant literature on children and their developmental characteristics the legal venues in which they may appear and the systemic issues practitioners must consider to provide a thorough guide to working with children in the legal system Featuring contributions from leading mental health and legal experts chapters start with an overview and history of the juvenile justice system along with discussion of critical developmental areas imperative to consider for work with children and idiosyncratic issues that arise The book ends with a case presentation section that illustrates the varied roles and venues in which children appear in the legal system An extended bibliography provides additional resources and literature to investigate specific topics in greater length This accessible and useable guide is designed to appeal to a broad range of people encountering children in the legal system including social workers psychologists psychiatrists attorneys and judges It will also benefit professions such as law enforcement as well as probation officers child protective workers school personnel and medical personnel **How Data**

Happened: A History from the Age of Reason to the Age of Algorithms Chris Wiggins,Matthew L. Jones,2023-03-21 Fascinating Jill Lepore The New Yorker A sweeping history of data and its technical political and ethical impact on our world From facial recognition capable of checking people into flights or identifying undocumented residents to automated decision systems that inform who gets loans and who receives bail each of us moves through a world determined by data empowered algorithms But these technologies didn t just appear they are part of a history that goes back centuries from the census enshrined in the US Constitution to the birth of eugenics in Victorian Britain to the development of Google search Expanding on the popular course they created at Columbia University Chris Wiggins and Matthew L Jones illuminate the ways in which data has long been used as a tool and a weapon in arguing for what is true as well as a means of rearranging or defending power They explore how data was created and curated as well as how new mathematical and computational techniques developed to contend with that data serve to shape people ideas society military operations and economies Although

technology and mathematics are at its heart the story of data ultimately concerns an unstable game among states corporations and people How were new technical and scientific capabilities developed who supported advanced or funded these capabilities or transitions and how did they change who could do what from what and to whom Wiggins and Jones focus on these questions as they trace data's historical arc and look to the future By understanding the trajectory of data where it has been and where it might yet go Wiggins and Jones argue that we can understand how to bend it to ends that we collectively choose with intentionality and purpose

Racing for the Bomb Robert S. Norris, 2014-10-21 In September 1942 Colonel Leslie R Groves was given the job of building the atomic bomb As a career officer in the Army Corps of Engineers Groves had overseen hundreds of military construction projects including the Pentagon Until now scientists have received the credit for the Manhattan Project's remarkable achievements And yet it was Leslie R Groves who made things happen It was Groves who drove manufacturers construction crews scientists industrialists and military and civilian officials to come up with the money the materials and the plans to solve thousands of problems and build the bomb in only two years It was his operation and in *Racing for the Bomb* he emerges as a take charge can do figure who succeeds in the face of formidable odds Revealed for the first time in *Racing for the Bomb* Groves played a crucial and decisive role in the planning timing and targeting of the Hiroshima and Nagasaki missions Norris offers new insights into the complex and controversial questions surrounding the decision to drop the bomb in Japan and Groves's actions during World War II which had a lasting imprint on the nuclear age and the Cold War that followed Groves's extensive influence on key institutions of postwar America has been overlooked for too long In this full scale biography which includes archival material and family letters and documents and features several previously unpublished photographs Norris places Groves at the center of the amazing Manhattan Project story Skyhorse Publishing along with our Arcade Good Books Sports Publishing and Yucca imprints is proud to publish a broad range of biographies autobiographies and memoirs Our list includes biographies on well known historical figures like Benjamin Franklin Nelson Mandela and Alexander Graham Bell as well as villains from history such as Heinrich Himmler John Wayne Gacy and O J Simpson We have also published survivor stories of World War II memoirs about overcoming adversity first hand tales of adventure and much more While not every title we publish becomes a New York Times bestseller or a national bestseller we are committed to books on subjects that are sometimes overlooked and to authors whose work might not otherwise find a home

Emergency War Plan Sean M. Maloney, 2021-02 Using strategic plans intelligence analysis and other materials that have only recently been declassified *Emergency War Plan* examines the theory and practice of nuclear deterrence during the 1945-1960 period of the Cold War

George Pitt-Rivers and the Nazis Bradley W. Hart, 2015-10-29 George Pitt Rivers began his career as one of Britain's most promising young anthropologists conducting research in the South Pacific and publishing articles in the country's leading academic journals With a museum in Oxford bearing his family name Pitt Rivers appeared to be on track for a sterling academic career that

might even have matched that of his grandfather one of the most prominent archaeologists of his day By the early 1930s however Pitt Rivers had turned from his academic work to politics Writing a series of books attacking international communism and praising the ideas of Benito Mussolini and Adolf Hitler Pitt Rivers fell into the circles of the anti Semitic far right In 1937 he attended the Nuremberg Rally and personally met Adolf Hitler and other leading Nazis With the outbreak of war in 1940 Pitt Rivers was arrested and interned by the British government on the suspicion that he might harm the war effort by publicly sharing his views effectively ending his academic career This book traces the remarkable career of a man who might have been remembered as one of Britain s leading 20th century anthropologists but instead became involved in a far right milieu that would result in his professional ruin and the relegation of most of his research to margins of scientific history At the same time his wider legacy would persist far beyond the academic sphere and can be found to the present day

A Lever Long Enough Robert McCaughey,2014-06-10 In this comprehensive social history of Columbia University s School of Engineering and Applied Science SEAS Robert McCaughey combines archival research with oral testimony and contemporary interviews to build both a critical and celebratory portrait of one of the oldest engineering schools in the United States McCaughey follows the evolving occasionally rocky and now integrated relationship between SEAS s engineers and the rest of the Columbia University student body faculty and administration He also revisits the interaction between the SEAS staff and the inhabitants and institutions of the City of New York where the school has resided since its founding in 1864 He compares the historical struggles and achievements of the school s engineers with their present day battles and accomplishments and he contrasts their teaching and research approaches to those of their peers at other free standing and Ivy league engineering schools What begins as a localized history of a school striving to define itself within a university known for its strengths in the humanities and the social sciences becomes a wider story of the transformation of the applied sciences into a critical component of American technology and education

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 **Geology and Geologic Hazards of the Blue Ridge** Arthur J. Merschat, Mark W. Carter, 2024-05-16 The three field guides in this volume explore facets of the geology of western North Carolina USA The trip to Buck Creek and Chunky Gal Mountain examines high temperature mafic and ultramafic rocks interpreted to be part of a dismembered ophiolite thrust onto Laurentian crust during the Taconic orogeny The second trip traverses rugged terrain along the Blue Ridge Escarpment from near the South Carolina state line to Hickory Nut Gorge just southeast of Asheville to examine rockfalls rockslides debris flows and debris slides triggered by extreme rainfall events The trip to Sparta North Carolina highlights the results of interdisciplinary studies among collaborators following the 2020 Mw 5.1 earthquake Overpowered Martin Blank, PhD, 2014-09-16 Keys wallet cell phone ready to go Cell phones have become ubiquitous fixtures of twenty first century life suctioned to our ears and stuck in our pockets Yet we've all heard whispers that these essential little devices give you brain cancer Many of us are left wondering as Maureen Dowd recently asked in the New York Times Are cells the new cigarettes Overpowered brings readers in accessible and fascinating prose through the science indicating biological effects resulting from low non thermal levels of non ionizing electromagnetic radiation levels considered safe by regulatory agencies coming not only from cell phones but many other devices we use in our homes and offices every day Dr Blank arms us with the information we need to lobby government and industry to keep ourselves and our families safe

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