



# basic education

Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

**NATIONAL  
SENIOR CERTIFICATE  
NASIONALE  
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**GRADE/GRAAD 12**

**PHYSICAL SCIENCES: CHEMISTRY (P2)  
FISIESE WETENSKAPPE: CHEMIE (V2)**

**FEBRUARY/MARCH 2014/FEBRUARIE/MAART 2014**

**MEMORANDUM**

**MARKS/PUNTE: 150**

**This memorandum consists of 21 pages.  
*Hierdie memorandum bestaan uit 21 bladsye.***

# Physical Science Pnovember Memo 2014

**Daniel Golden**



## **Physical Science November Memo 2014:**

**Crime, Violence, and Global Warming** John Crank, Linda Jacoby, 2015-05-20 Crime Violence and Global Warming introduces the many connections between climate change and criminal activity Conflict over natural resources can escalate to state and non state actors resulting in wars asymmetrical warfare and terrorism Crank and Jacoby apply criminological theory to each aspect of this complicated web helping readers to evaluate conflicting claims about global warming and to analyze evidence of the current and potential impact of climate change on conflict and crime Beginning with an overview of the science of global warming the authors move on to the links between climate change scarce resources and crime Their approach takes in the full scope of causes and consequences present and future in the United States and throughout the world The book concludes by looking ahead at the problem of forecasting future security implications if global warming continues or accelerates This fresh approach to the criminology of climate change challenges readers to examine all sides of this controversial question and to formulate their own analysis of our planet s future *Triennial Review of the National Nanotechnology Initiative* National Research Council, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Triennial Review of the National Nanotechnology Initiative: Phase II, 2014-01-20 The National Nanotechnology Initiative NNI is a multiagency multidisciplinary federal initiative comprising a collection of research programs and other activities funded by the participating agencies and linked by the vision of a future in which the ability to understand and control matter at the nanoscale leads to a revolution in technology and industry that benefits society As first stated in the 2004 NNI strategic plan the participating agencies intend to make progress in realizing that vision by working toward four goals Planning coordination and management of the NNI are carried out by the interagency Nanoscale Science Engineering and Technology NSET Subcommittee of the National Science and Technology Council NSTC Committee on Technology CoT with support from the National Nanotechnology Coordination Office NNCO Triennial Review of the National Nanotechnology Initiative is the latest National Research Council review of the NNI an assessment called for by the 21st Century Nanotechnology Research and Development Act of 2003 The overall objective of the review is to make recommendations to the NSET Subcommittee and the NNCO that will improve the NNI s value for basic and applied research and for development of applications in nanotechnology that will provide economic societal and national security benefits to the United States In its assessment the committee found it important to understand in some detail and to describe in its report the NNI s structure and organization how the NNI fits within the larger federal research enterprise as well as how it can and should be organized for management purposes and the initiative s various stakeholders and their roles with respect to research Because technology transfer one of the four NNI goals is dependent on management and coordination the committee chose to address the topic of technology transfer last following its discussion of definitions of success and metrics for assessing progress toward achieving the four goals and management and coordination Addressing its tasks in this order

would the committee hoped better reflect the logic of its approach to review of the NNI Triennial Review of the National Nanotechnology Initiative also provides concluding remarks in the last chapter Professional Journal of the United States Army ,2015 **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 **Military Review** ,2015 **Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions** National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Board on Mathematical Sciences and Their Applications,Committee on Applied and Theoretical Statistics,Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions,2017-02-06 The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges P R must also address larger scale questions such as how the current realignment of forces to the Asia Pacific area and other regions will affect recruitment readiness and retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning

streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

**Semiconductor TeraHertz Technology** Guillermo Carpintero, Enrique Garcia-Munoz, Hans Hartnagel, Sascha Preu, Antti Raisanen, 2015-07-14 Key advances in Semiconductor Terahertz THz Technology now promises important new applications enabling scientists and engineers to overcome the challenges of accessing the so called terahertz gap This pioneering reference explains the fundamental methods and surveys innovative techniques in the generation detection and processing of THz waves with solid state devices as well as illustrating their potential applications in security and telecommunications among other fields With contributions from leading experts Semiconductor Terahertz Technology Devices and Systems at Room Temperature Operation comprehensively and systematically covers semiconductor based room temperature operating sources such as photomixers THz antennas radiation concepts and THz propagation as well as room temperature operating THz detectors The second part of the book focuses on applications such as the latest photonic and electronic THz systems as well as emerging THz technologies including whispering gallery resonators liquid crystals metamaterials and graphene based devices This book will provide support for practicing researchers and professionals and will be an indispensable reference to graduate students in the field of THz technology Key features Includes crucial theoretical background sections to photomixers photoconductive switches and electronic THz generation detection Provides an extensive overview of semiconductor based THz sources and applications Discusses vital technologies for affordable THz applications Supports teaching and studying increasingly popular courses on semiconductor THz technology

The Routledge Social Science Handbook of AI Anthony Elliott, 2021-07-12 The Routledge Social Science Handbook of AI is a landmark volume providing students and teachers with a comprehensive and accessible guide to the major topics and trends of research in the social sciences of artificial intelligence AI as well as surveying how the digital revolution from supercomputers and social media to advanced automation and robotics is transforming society culture politics and economy The Handbook provides representative coverage of the full range of social science engagements with the AI revolution from employment and jobs to education and new digital skills to automated technologies of military warfare and the future of ethics The reference work is introduced by editor Anthony Elliott who addresses the question of relationship of social sciences to artificial intelligence and who surveys various convergences and divergences between contemporary social theory and the digital revolution The Handbook is exceptionally wide ranging in span covering topics all the way from AI technologies in everyday life to single purpose robots throughout home and work life and from the mainstreaming of human machine interfaces to the latest advances in AI such as the ability to mimic and improve on many aspects of human brain function A unique integration of social science on the one hand and new technologies of artificial intelligence on the other

this Handbook offers readers new ways of understanding the rise of AI and its associated global transformations Written in a clear and direct style the Handbook will appeal to a wide undergraduate audience Knowledge Discovery in Big Data from Astronomy and Earth Observation Petr Skoda,Fathalrahman Adam,2020-04-09 Knowledge Discovery in Big Data from Astronomy and Earth Observation Astrogeoinformatics bridges the gap between astronomy and geoscience in the context of applications techniques and key principles of big data Machine learning and parallel computing are increasingly becoming cross disciplinary as the phenomena of Big Data is becoming common place This book provides insight into the common workflows and data science tools used for big data in astronomy and geoscience After establishing similarity in data gathering pre processing and handling the data science aspects are illustrated in the context of both fields Software hardware and algorithms of big data are addressed Finally the book offers insight into the emerging science which combines data and expertise from both fields in studying the effect of cosmos on the earth and its inhabitants **Spy Schools** Daniel Golden,2024-08-06 An expos revealing how academia has become the center of foreign and domestic espionage and why that is troubling news for our nation s security Grounded in extensive research and reporting Pulitzer Prize winning journalist Daniel Golden s Spy Schools reveals how academia has emerged as a frontline in the global spy game In a knowledge based economy universities are repositories of valuable information and research where brilliant minds of all nationalities mingle freely with few questions asked Intelligence agencies have always recruited bright undergraduates but now in an era when espionage increasingly requires specialized scientific or technological expertise they re wooing higher level academics not just as analysts but also for clandestine operations Golden uncovers unbelievable campus activity from the CIA placing agents undercover in Harvard Kennedy School classes and staging academic conferences to persuade Iranian nuclear scientists to defect to a Chinese graduate student at Duke University stealing research for an invisibility cloak and a tiny liberal arts college in Marietta Ohio exchanging faculty with China s most notorious spy school He shows how relentlessly and ruthlessly this practice has permeated our culture not just inside the US but internationally as well Golden blows the lid off this secret culture of espionage and its consequences at home and abroad Whether you are a teacher student or parent Daniel Golden s closely researched account of the assault on our academic freedoms by home grown intelligence services is timely and shocking John le Carr It s real life Spy vs Spy a fascinating book Washington Post *Extreme Weather Events and Human Health* Rais Akhtar,2019-11-15 This edited book assesses the impacts of various extreme weather events on human health and development from a global perspective and includes several case studies in various geographical regions around the globe Covering all continents it describes the impact of extreme weather conditions such as flash floods heatwaves cold waves droughts forest fires strong winds and storms in both developing and developed countries The contributing authors also investigate the spread of diseases and the risk to food security caused by drought and flooding Further the book discusses the economic damage resulting from natural disasters including hurricanes It has been estimated

that in 2017 natural disasters and climate change resulted in economic losses of 309 billion US dollars Scientists also predict that if nothing is done to curb the effects of climate change in Europe the death toll due to weather disasters could rise 50 fold by the end of the 21st century with extreme heat alone causing more than 150 000 deaths a year as the report on global warming of 1.5 C warns that China Russia and Canada s current climate policies would steer the world above a catastrophic 5 C of warming by the end of 2100 As such the book highlights how the wellbeing of different populations is threatened by extreme events now and in the foreseeable future

*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

*Every American an Innovator* Matthew Wisnioski, 2025-05-13 A landmark cultural history that reveals how the relentless pursuit of innovation has transformed our society our institutions and our inner selves For half a century innovation served as a universal good in an age of fracture That consensus is cracking While the imperative to innovate for a better future continues to fuel systemic change around the world critics now assail innovation culture as an engine of inequality or accuse its do-gooders of woke groupthink What happened Drawing on a decade of research *Every American an Innovator* by Matthew Wisnioski investigates how innovation a once obscure academic term became ingrained in our institutions our education and our beliefs about ourselves Wisnioski argues that innovation culture did not spring from the digital revolution nor can it be boiled down to heroic entrepreneurs or villainous capitalists Instead he reveals the central role of a new class of experts in spreading toolkits and mindsets from the cornfields of 1940s Iowa to Silicon Valley tech giants today This group of engineers philosophers bureaucrats and business leaders posited that

innovators were society's most important change agents and remade the nation in their image. The innovation culture they built transcended partisan divisions and made strange bedfellows. Wisnioski shows how Kennedy era policymakers inspired President Nixon's dream of a Nobel Prize for innovators, how anti-military professors built the first university incubators for entrepreneurs, how radical feminists became millionaire consultants, how demands for a rust belt manufacturing renaissance inspired theories of a global creative class, how programs that encouraged girls and minority children to pursue innovative lives changed the nature of childhood play, and why the innovation consensus is now in dispute.

**Symmetry in Geometry and Analysis, Volume 1** Michael Pevzner, Hideko Sekiguchi, 2025-02-09. *Symmetry in Geometry and Analysis* is a Festschrift honoring Toshiyuki Kobayashi. The three volumes feature 35 selected contributions from invited speakers of twin conferences held in June 2022 in Reims, France, and in September 2022 in Tokyo, Japan. These contributions highlight the profound impact of Prof. Kobayashi's pioneering ideas, groundbreaking discoveries, and significant achievements in the development of analytic representation theory, noncommutative harmonic analysis, and the geometry of discontinuous groups beyond the Riemannian context, among other areas over the past four decades. The first volume of the Festschrift includes a survey article on Kobayashi's innovative contributions to Mathematics, emphasizing their influence and introducing new perspectives across various fields. Original articles contained in Volume 1 focus on differential geometry with symmetries, as well as algebraic and geometric aspects of representation theory of reductive Lie groups and related topics. Contributions are by Velleda Baldoni, Dan Barbasch, Leticia Barchini, Sigiswald Barbier, Yves Benoist, Sam Claerebout, Michael Eastwood, Wee Teck Gan, William M. Goldman, Roger Howe, Kazuki Kannaka, Toshihisa Kubo, Hung Yean Loke, Jia Jun Ma, Reiko Miyaoka, Kento Ogawa, Takayuki Okuda, Yoshiki Oshima, Paul Mile Paradan, Annegret Paul, Michael Pevzner, Yiannis Sakellaridis, Atsumi Sasaki, Gordan Savin, Hideko Sekiguchi, Binyong Sun, Yuichiro Tanaka, Koichi Tojo, Peter Trapa, Michèle Vergne, Joseph A. Wolf, Kayue Daniel Wong, and Chen Bo Zhu. *The Mathematical Work of Toshiyuki Kobayashi* is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](https://link.springer.com).

**Practical Ethics for the Surgeon** Lloyd Jacobs, 2018-05-09. Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. Recent significant changes in surgery technology, regulations, and society have greatly impacted how surgeons consider ethical issues in light of professional expertise, wisdom, and personal responsibility. Dr. Lloyd A. Jacobs, along with world-renowned surgeons and other health care professionals, provides thoughtful, intellectually challenging information and commentary in an easy-to-understand manner to help surgeons think through and respond effectively to complex questions of life, death, provision of health care, and more. Covering the wide range of ethical concerns facing today's surgeons, this concise, readable title is beneficial at all levels of training and practice.

**Navigating the Clean Water Act** United States. Congress. House. Committee on Science, Space, and Technology (2011), United States. Congress. House. Committee on Science, Space, and Technology (2011- ), 2015.

**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

**The Squares** Cyrus C. M. Mody,2022-07-12 When ungroovy scientists did groovy science how non activist scientists and engineers adapted their work to a rapidly changing social and political landscape In The Squares Cyrus Mody shows how between the late 1960s and the early 1980s some scientists and engineers who did not consider themselves activists New Leftists or members of the counterculture accommodated their work to the rapidly changing social and political landscape of the time These square scientists Mody shows began to do many of the things that the counterculture urged turn away from military industrial funding become more interdisciplinary and focus their research on solving problems of civil society During the period Mody calls the long 1970s ungroovy scientists were doing groovy science Mody offers a series of case studies of some of these collective efforts by non activist scientists to use their technical knowledge for the good of society He considers the region around Santa Barbara and the interplay of public universities think tanks established firms new companies philanthropies and social movement organizations He looks at Stanford University s transition from Cold War science to commercialized technoscience NASA s search for a post Apollo mission the unsuccessful foray into solar energy by Nobel laureate Jack Kilby the civilianization of the US semiconductor industry and systems engineer Arthur D Hall s ill fated promotion of automated agriculture

**Strangely, Friends** Karen Dubinsky,2025-09-23 Strangely Friends delves into the rich often overlooked history of personal and cultural connections between Cubans and Canadians From the early days of the Cuban Revolution to the present this book uncovers the stories of Canadians who were drawn to Cuba teachers artists development aid workers filmmakers and activists who left an indelible mark on the island and Cubans especially the

musicians who found a home in Canada Through intimate portraits and serendipitous encounters Karen Dubinsky explores how these relationships transcended political ideologies and state policies revealing a shared humanity that defies borders From the classrooms of Havana to the jazz clubs of Toronto this book captures the enduring bonds forged through music education and mutual curiosity offering a fresh perspective on the power of people to people connections     **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

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