



# **basic education**

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**REPUBLIC OF SOUTH AFRICA**

## **NATIONAL SENIOR CERTIFICATE**

**GRADE 12**

**LIFE SCIENCES P1  
EXEMPLAR 2014  
MEMORANDUM**

**MARKS: 150**

**This memorandum consists of 11 pages.**

# Memorandum Of Life Science For November 2014

**Yuval Noah Harari**



## **Memorandum Of Life Science For November 2014:**

**Management of Legionella in Water Systems** National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Division on Earth and Life Studies, Board on Population Health and Public Health Practice, Board on Life Sciences, Water Science and Technology Board, Committee on Management of Legionella in Water Systems, 2020-02-20 Legionnaires disease a pneumonia caused by the Legionella bacterium is the leading cause of reported waterborne disease outbreaks in the United States Legionella occur naturally in water from many different environmental sources but grow rapidly in the warm stagnant conditions that can be found in engineered water systems such as cooling towers building plumbing and hot tubs Humans are primarily exposed to Legionella through inhalation of contaminated aerosols into the respiratory system Legionnaires disease can be fatal with between 3 and 33 percent of Legionella infections leading to death and studies show the incidence of Legionnaires disease in the United States increased five fold from 2000 to 2017

Management of Legionella in Water Systems reviews the state of science on Legionella contamination of water systems specifically the ecology and diagnosis This report explores the process of transmission via water systems quantification prevention and control and policy and training issues that affect the incidence of Legionnaires disease It also analyzes existing knowledge gaps and recommends research priorities moving forward *The Truth Pill* Dinesh Singh

Thakur, Prashant Reddy Thikkavarapu, 2022-10-10 Since 2004 when the fraud at Ranbaxy the largest Indian pharmaceutical company at the time first came to light the Indian pharmaceutical industry and clinical research organizations have been rocked by a series of scandals after investigations by American and European drug regulators While the West has responded to concerns about quality of Made in India medicine by blocking exports from many Indian pharmaceutical companies the Indian government responded not with regulatory reform but conspiracy theories about vested interests working against India More worryingly the Indian state has also turned a blind eye to a far more serious quality crisis in its domestic pharmaceutical market At times these quality issues manifest themselves in the deaths of Indian citizens as happened in early 2020 when 11 children died in Jammu because of adulterated cough syrup On other occasions a dodgy drug approval process has led to the Indian regulator approving sales of drugs that have never been approved by regulators in the developed markets The result is not just poor health outcomes but outsize profits for pharmaceutical companies manufacturing medicines that have never been validated through scientifically rigorous clinical trials for therapeutic evidence These twin crises in both the domestic and export markets is because India has either outdated regulations or no regulations in some areas Even the outdated regulations are enforced with kids gloves by drug inspectors and judicial magistrates who are ready to forgive even those whose drugs are found to contain barely any active ingredient or dangerously high levels of bacterial endotoxins In a race for growth of the pharmaceutical industry the Indian state has sacrificed scientific rigour and ignored the basic principles of public health Given India's position as the pharmacy of the

developing world the failure of the Indian state is a problem for not just India but most of the developing world This timely important and compelling book based on deep research questions and analyzes the actions of the institutions that are responsible for the safety and efficacy of the Indian drug supply in the context of the historical evolution of the Drugs Act 1940 from pre Independence India to the present day The future of Indian public health lies in responding to the issues raised in this book

**Proletarian Era Dec2014** Provash Ghosh,2014-12-01 It is the official newspaper of the Socialist Unity Centre of India Communist It is published from Kolkata in English with online editions Shibdas Ghosh founded the newspaper Nihar Mukherjee was its editor from 1976 to 2010 On his death Provash Ghosh was elected as the General Secretary of SUCI C and the Editor in Chief of the newspaper

**Marine Transboundary Conservation and Protected Areas** Peter Mackelworth,2016-04-28 The marine environment does not naturally respect arbitrary international boundaries The establishment and management of transboundary marine protected areas therefore presents major governance challenges This book analyses a series of marine transboundary conservation initiatives embedded in varying contextual situations to examine the underlying reasons for their success or failure Utilising an adapted pathways of influence framework it provides insights into the development of marine transboundary conservation initiatives looking at the effectiveness of international rules international norms and discourse market forces and direct access to policy making Examples come from a wide range of jurisdictions including territorial seas continental shelves exclusive economic zones and areas beyond national jurisdiction Case studies include initiatives in the Coral Triangle West Africa Central America the Wadden Sea the Red Sea and the Mediterranean Sea In addition the authors assess the potential for developing wider international cooperation as a result of relationships forged through involvement within these marine transboundary conservation initiatives

**Arab Dawn** Bessma Momani,2015-11-26 In the West news about the Middle East is dominated by an endless stream of reports and commentary about civil war sectarian violence religious extremism and economic stagnation But do they tell the full story For instance who knew that university enrolment in the war torn Palestinian territories exceeds that of Hong Kong or that more than a third of Lebanese entrepreneurs are women Change is on its way in the Middle East argues Bessma Momani and its cause is demographic Today one in five Arabs is between the ages of fifteen and twenty four Young optimistic and increasingly cosmopolitan their generation will shape the region's future Drawing on interviews surveys and other research conducted with young people in fifteen countries across the Arab world Momani describes the passion for entrepreneurship reform and equality among Arab youth With insightful political analysis based on the latest statistics and first hand accounts Arab Dawn is an invigorating study of the Arab world and the transformative power of youth

**The Ideas Industry** Daniel W. Drezner,2017-03-01 The public intellectual has a long and storied history Previously the public intellectual was always expected to opine on a broad array of topics from foreign policy to economics Yet in recent years a new kind of thinker has supplanted that archetype the thought leader Equipped with one

big idea thought leaders focus their energies on TED talks rather than highbrow periodicals. In contrast to public intellectuals, thought leaders gain fame as single idea merchants. Their ideas are often laudable and highly ambitious but they often work through institutions that are closed to the public and less open to criticism. In *The Ideas Industry*, Daniel W. Drezner explains how this shift happened, pointing to the roles of political polarization, heightened inequality, and eroding trust in authority. In contrast to their predecessors, today's intellectuals are more likely to enjoy the support of ideologically friendly private funders and be housed in ideologically driven think tanks. Increasing inequality is also a key driver of this shift; more than ever before, contemporary plutocrats fund intellectuals and idea factories that generate arguments that align with their own. Finally, the erosion of trust in experts has lowered the barriers of entry in the marketplace of ideas. But while there are certainly some downsides to the contemporary ideas industry, Drezner argues that it is very good at broadcasting ideas widely and reaching large audiences hungry for new thinking. Both fair-minded and trenchant, *The Ideas Industry* reshapes our understanding of contemporary public intellectual life in America and the West. — *21 Lessons for the 21st Century* Yuval Noah Harari, 2018-09-04 1 NEW YORK TIMES BESTSELLER In *Sapiens* he explored our past. In *Homo Deus* he looked to our future. Now one of the world's most innovative thinkers explores what it means to be human in an age of bewilderment, now updated with new material. Fascinating, a crucial global conversation about how to take on the problems of the twenty-first century. Bill Gates, *The New York Times Book Review*. A FINANCIAL TIMES BEST BOOK OF THE YEAR. How can we protect ourselves from nuclear war or ecological catastrophe? What do we do about the epidemic of fake news or the threat of terrorism? How should we prepare our children for the future? *21 Lessons for the 21st Century* is a probing and visionary investigation into today's most urgent issues as we move into the future. As technology advances faster than our understanding of it, hacking becomes a tactic of war, and the world feels more polarized than ever. Harari addresses the challenge of navigating life in the face of constant and disorienting change and raises the important questions we need to ask ourselves in order to survive. In twenty-one accessible chapters that are both provocative and profound, Harari untangles political, technological, social, and existential issues and offers advice on how to prepare for a very different future from the world we now live in. How can we retain freedom of choice when Big Data is watching us? What will the future workforce look like, and how should we ready ourselves for it? Why is liberal democracy in crisis? Harari's unique ability to make sense of where we have come from and where we are going has captured the imaginations of millions of readers. Here he invites us to consider values, meaning, and personal engagement in a world full of noise and uncertainty. When we are deluged with irrelevant information, clarity is power. Presenting complex contemporary challenges clearly and accessibly, *21 Lessons for the 21st Century* is essential reading. — *Dying of Whiteness* Jonathan M. Metz, 2019-03-05 A physician's provocative Boston Globe and timely Ibram X. Kendi New York Times Book Review account of how right-wing backlash policies have deadly consequences even for the white voters they promise to help. In election after election, conservative white Americans have

embraced politicians who pledge to make their lives great again But as physician Jonathan M Metzl shows in *Dying of Whiteness* the policies that result actually place white Americans at ever greater risk of sickness and death Interviewing a range of everyday Americans Metzl examines how racial resentment has fueled progun laws in Missouri resistance to the Affordable Care Act in Tennessee and cuts to schools and social services in Kansas He shows these policies costs increasing deaths by gun suicide falling life expectancies and rising dropout rates Now updated with a new afterword *Dying of Whiteness* demonstrates how much white America would benefit by emphasizing cooperation rather than chasing false promises of supremacy Winner of the Robert F Kennedy Book Award Governomics Ian McAuley, Miriam Lyons, 2015-05-01 People have good reason to demand decent public education and a well funded health system to yearn for an economy that doesn't trash the environment or for a smaller gap between rich and poor Almost without exception sound economics is on their side We've grown used to public debates that pit people and the planet against an abstract distorted image of the economy but it doesn't have to be this way *Governomics* shows that an emaciated state is bad for business and that standing up for government means standing up for a public sector that truly serves the public Everybody knows governments are wasteful incompetent and a drag on the economy But if you're not sure that's true read this book Ross Gittins Sydney Morning Herald and *The Age* *Governomics* shows that a market economy can only work when sustained by a strong and active public sector It will inject some much needed economic sanity into conversations on the role of government in Australia John Quiggin Australian Research Council Laureate Fellow University of Queensland **Business-State Relations under PT Governments** Stefanie Tomé Schmitt, 2022-02-21 During the Partido dos Trabalhadores PT Workers Party Governments in Brazil non electoral and extra parliamentary political participation grew significantly Both Lula and Rousseff used an increasing number of mechanisms of participation known in Portuguese as *rg os colegiados* collegiate bodies for democratizing political decisions Stefanie Tom Schmitt's book addresses the impacts of participatory policy making on business state relations under the New Developmentalism Her research uncovers business participation in 125 collegiate bodies based on data collected with the peak sectoral corporatist business associations of agriculture commerce industry and financial services It discloses a formalized pattern of business politics linked to the use of Corporatist Institutions exposing a gap between Political Sociology and Political Economy approaches to interest representation in Brazil In joining the rule configuration assessment with a process tracing of participatory policy making in employment innovation and biodiversity her investigation also reveals that engendering a more formalized pattern of business politics relied on more than choices of institutional design promoting business inclusiveness it was contingent on business and government commitment building within mechanisms of participation and in related policy networks Commerce, Justice, Science, and Related Agencies Appropriations for 2013 United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2012 **William Watson Cheyne and the Advancement of**

**Bacteriology** Charles DePaolo, 2016-09-29 William Watson Cheyne 1852 1932 a surgeon by training and a student of Joseph Lister was a prominent British bacteriologist who published 60 papers and 13 monographs from 1879 to 1927 A proponent of the idea that bacteriology and medicine were interdependent disciplines he investigated the causes and treatment of wound infections tuberculosis cholera tetanus and gangrene In 1897 he organized an historical outline of 19th century bacteriology in five landmark periods of discovery each defined by the work of an influential figure This study documents his contributions to the history of microbiology and describes his activities as a laboratory investigator clinician surgeon translator editor and educator

**Object Lessons and the Formation of Knowledge** Kerstin Barndt, Carla M. Sinopoli, 2017-09-19 Object Lessons and the Formation of Knowledge explores the museums libraries and special collections of the University of Michigan on its bicentennial Since its inception U M has collected and preserved objects biological and geological specimens ethnographic and archaeological artifacts photographs and artistic works encyclopedia textbooks rare books and documents and many other items These vast collections and libraries testify to an ambitious vision of the research university as a place where knowledge is accumulated shared and disseminated through teaching exhibition and publication Today two hundred years after the university's founding museums libraries and archives continue to be an important part of U M which maintains more than twenty distinct museums libraries and collections Viewed from a historic perspective they provide a window through which we can explore the transformation of the academy its public role and the development of scholarly disciplines over the last two centuries Even as they speak to important facets of Michigan's history many of these collections also remain essential to academic research knowledge production and object based pedagogy Moreover the university's exhibitions and displays attract hundreds of thousands of visitors per year from the campus regional and global communities Beautifully illustrated with color photographs of these world renowned collections this book will appeal to readers interested in the history of museums and collections the formation of academic disciplines and of course the University of Michigan

*Progress Toward Restoring the Everglades* National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Water Science and Technology Board, Committee on Independent Scientific Review of Everglades Restoration Progress, 2017-04-07 The Everglades ecosystem is vast stretching more than 200 miles from Orlando to Florida Bay and Everglades National Park is but a part located at the southern end During the 19th and 20th centuries the historical Everglades has been reduced to half of its original size and what remains is not the pristine ecosystem many image it to be but one that has been highly engineered and otherwise heavily influenced and is intensely managed by humans Rather than slowly flowing southward in a broad river of grass water moves through a maze of canals levees pump stations and hydraulic control structures and a substantial fraction is diverted from the natural system to meet water supply and flood control needs The water that remains is polluted by phosphorus and other contaminants originating from agriculture and other human activities Many components of the natural system are highly degraded and

continue to degrade Progress Toward Restoring the Everglades is the sixth biennial review of progress made in meeting the goals of the Comprehensive Everglades Restoration Plan CERP This complex multibillion dollar project to protect and restore the remaining Everglades has a 30 40 year timeline This report assesses progress made in the various separate project components and discusses specific scientific and engineering issues that may impact further progress According to Progress Toward Restoring the Everglades a dedicated source of funding could provide ongoing long term system wide monitoring and assessment that is critical to meeting restoration objectives This report examines the implications of knowledge gained and changes in widely accepted scientific understanding regarding pre drainage hydrology climate change and the feasibility of water storage since the CERP was developed

**Assured Destruction** David Bath,2020-03-15 Assured Destruction Building the Ballistic Missile Culture of the U S Air Force documents the rapid development of nuclear ballistic missiles in the United States and their equally swift demise after the Cuban Missile Crisis revealing how these drastic changes negatively influenced both the Air Force and the missile community David W Bath contends that the struggle to create and control nuclear ballistic missiles threatened both the dominance of the United States during an intensifying Cold War and the strategic airpower mission of the newly created Air Force The book details the strenuous efforts required to create and prepare a missile arsenal before the Cuban Missile Crisis which occurred only five years after the first missile was declared operational It uses the personal recollections of former missileers and the professional military education theses they wrote to highlight some of the concerns that have faced the missileers who operated and worked on these powerful weapons from 1957 to the present The highlight of the book however is the personal stories of the missileers who served during the missile crisis revealing the efforts that they went to in order to prepare these unique and untried weapons for what many thought might become the third world war

Annual Report - Indian Council of Social Science Research Indian Council of Social Science Research,2014

**Data Management** Margaret E. Henderson,2016-10-25 Libraries organize information and data is information so it is natural that librarians should help people who need to find organize use or store data Organizations need evidence for decision making data provides that evidence Inventors and creators build upon data collected by others All around us people need data Librarians can help increase the relevance of their library to the research and education mission of their institution by learning more about data and how to manage it Data Management will guide readers through Understanding data management basics and best practices Using the reference interview to help with data management Writing data management plans for grants Starting and growing a data management service Finding collaborators inside and outside the library Collecting and using data in different disciplines

**Demystifying the Academic Research Enterprise** Kelvin K. Droegemeier,2023-12-19 What next generation scholars need to know in order to thrive and how they can actively participate in shaping the academic research enterprise The academic research enterprise is highly complex involving multiple sectors of society and a vast array of approaches In Demystifying the Academic Research



Enterprise Kelvin K Droegemeier shows next generation scholars across all disciplines how to become more productive earlier in their career as well as how to help shape the academic research enterprise The topics covered include public perceptions of scholarly work and its use in policy understanding the big picture of funding and national priorities as well as identifying funding sources research methods collecting data and materials writing grant proposals publishing results ethical conduct bias and peer review intellectual property and compliance regulations partnerships and collaboration diversity equity and inclusion and the future of research Droegemeier's two principal goals are to enhance and accelerate scholars understanding of the academic research process and to democratize that understanding particularly at institutions that traditionally are underrepresented or lack robust resources While intended for undergraduate and graduate students postdoctoral scholars and early career faculty *Demystifying the Academic Research Enterprise* is also relevant to mid career and senior faculty research administrators funding organizations congressional staff policymakers and the general public Droegemeier places scholars in a broader national and international context not as passive recipients of the existing system but as key actors who actively participate in helping to set priorities determine policies drive systemic change and advance knowledge

*Improving the EPA Multi-Sector General Permit for Industrial Stormwater Discharges* National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Water Science and Technology Board, Committee on Improving the Next-Generation EPA Multi-Sector General Permit for Industrial Stormwater Discharges, 2019-10-11 Industrial stormwater is derived from precipitation and or runoff that comes in contact with industrial manufacturing processing storage or material overburden and then runs offsite and enters drainage systems or receiving waters In 1987 Congress significantly expanded the National Pollutant Discharge Elimination System NPDES program through amendments to the Clean Water Act to include industrial stormwater runoff conveyed through outfalls directly to receiving waters or indirectly through municipal separate storm sewer systems The added regulation of stormwater in the NPDES program has been challenging Stormwater is produced throughout a developed landscape and its production and delivery are episodic In 2009 the National Research Council released a comprehensive report on the Environmental Protection Agency's Stormwater Program that covered all sectors of the program This study builds on that report with a focus on industrial stormwater monitoring and management

*Access to Scientific Research* David J. Brown, 2015-11-13 The debate about access to scientific research raises questions about the current effectiveness of scholarly communication processes This book explores from an independent point of view the current state of the STM publishing market new publishing technologies and business models as well as the information habit of researchers the politics of research funders and the demand for scientific research as a public good The book also investigates the democratisation of science including how the information needs of knowledge workers outside academia can be embraced in future

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