

Department Of Education Physical Sciences March 2014 Grade 11 Question Paper

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Quality of Work Life and Job Satisfaction of Academic Staff in Public Universities in Uganda Julius Nyerere Kawemba 2017-08-28 Doctoral Thesis / Dissertation from the year 2010 in the subject Pedagogy - Media Pedagogy, Makerere University (East African School of Higher Educational Studies and Development), course: Education Management, language: English, abstract: The purpose of the study was to establish the relationship between quality of work life and job satisfaction of academic staff in public universities in Uganda using Makerere University as the case study. The study was prompted by the chronic problem of academic staff job satisfaction in Makerere University since the 1970s with most lecturers not devoted to their jobs, striking for salaries, rampant absenteeism from work, poor attitude, late coming for work and leaving early, delayed handing in of marks, continuous complaints and high rates of turnover for greener pastures. The study was guided by the following specific objectives: to establish the relationship between employee involvement and job satisfaction of academic staff; to examine the relationship between work environment and job satisfaction of academic staff; to find out the relationship between remuneration and job satisfaction of academic staff and to establish the relationship between recognition and job satisfaction of academic staff. A correlational, cross-sectional survey design was used to carry out the study. A sample of 162 respondents was systematically selected to participate in the study. Data were collected with the use of questionnaires. Frequencies and percentages were used to show the distribution of respondents on different items. Correlation and multiple regression were used to establish the relationships between the variables. The study findings empirically revealed that; employee involvement ($r = 0.397$ & $p = 0.000$); work environment ($r = 0.525$ & $p = 0.000$); remuneration ($r = 0.389$ & $p = 0.000$) and recognition ($r = 0.362$ & $p = 0.000$) have a positive significant relationship with job satisfaction. The study concluded that quality of work life enhances job satisfaction. Therefore, the researcher recommended that Makerere University management should involve academics when developing or revising the goals and objectives of the institution through workshops, so that suggestions of staff can form part of the development process, thus enabling successful implementation. Secondly, Makerere University should focus create a conducive working environment with adequate and relevant educational facilities alongside improved working relations and friendly employee policy. Thirdly, Makerere University should enhance the remuneration (e.g. fringe

benefits, bonus payments) made to the academic staff in order to raise their job satisfaction levels.

Examining the Phenomenon of "Teaching Out-of-field" Linda Hobbs 2019-01-01 This book identifies and surveys the major themes around 'out-of-field teaching', that is, teaching subjects or year levels without a specialization. This has been an issue in many countries for some time, yet until recently there has been little formal research and poor policy responses to related problems. This book arises out of collaborations between members of an international group of researchers and practitioners from Australia, Germany, Ireland, England, South Africa, Indonesia and the United States. Cross-national comparisons of ideas through case studies, descriptions of practice and research data interrogates the experiences, practices, and contexts relating to out-of-field teaching. In particular, the book considers the phenomenon of out-of-field teaching in relation to national policy contexts, local school leadership practices, professional development. The book represents an essential contribution on a highly topical issue that has implications for quality and equitable education around the globe.

Social Science for What? Mark Solovey 2020-07-07 How the NSF became an important yet controversial patron for the social sciences, influencing debates over their scientific status and social relevance. In the early Cold War years, the U.S. government established the National Science Foundation (NSF), a civilian agency that soon became widely known for its dedication to supporting first-rate science. The agency's 1950 enabling legislation made no mention of the social sciences, although it included a vague reference to "other sciences." Nevertheless, as Mark Solovey shows in this book, the NSF also soon became a major--albeit controversial--source of public funding for them.

KSU Ag Report 2014

WAC Partnerships Between Secondary and Postsecondary Institutions Jacob Blummer 2016-03-22 Working with educators at all academic levels involved in WAC partnerships, the authors and editors of this collection demonstrate successful models of collaboration between schools and institutions so others can emulate and promote this type of collaboration.

Affordability of National Flood Insurance Program Premiums National Research Council 2015-08-06 The National Flood Insurance Program (NFIP) is housed within the Federal Emergency Management Agency (FEMA) and offers insurance policies that are marketed and sold through private insurers, but with the risks borne by the

U.S. federal government. NFIP's primary goals are to ensure affordable insurance premiums, secure widespread community participation in the program, and earn premium and fee income that covers claims paid and program expenses over time. In July 2012, the U.S. Congress passed the Biggert-Waters Flood Insurance Reform and Modernization Act (Biggert-Waters 2012), designed to move toward an insurance program with NFIP risk-based premiums that better reflected expected losses from floods at insured properties. This eliminated policies priced at what the NFIP called "pre-FIRM subsidized" and "grandfathered." As Biggert-Waters 2012 went into effect, constituents from multiple communities expressed concerns about the elimination of lower rate classes, arguing that it created a financial burden on policy holders. In response to these concerns Congress passed The Homeowner Flood Insurance Affordability Act of 2014 (HFIAA 2014). The 2014 legislation changed the process by which pre-FIRM subsidized premiums for primary residences would be removed and reinstated grandfathering. As part of that legislation, FEMA must report back to Congress with a draft affordability framework. Affordability of National Flood Insurance Program Premiums: Report 1 is the first part of a two-part study to provide input as FEMA prepares their draft affordability framework. This report discusses the underlying definitions and methods for an affordability framework and the affordability concept and applications. Affordability of National Flood Insurance Program Premiums gives an overview of the demand for insurance and the history of the NFIP premium setting. The report then describes alternatives for determining when the premium increases resulting from Biggert-Waters 2012 would make flood insurance unaffordable.

Assessment of the National Science Foundation's 2015 Geospace Portfolio Review National Academies of Sciences, Engineering, and Medicine 2017-04-28 At the request of the Advisory Committee for Geosciences of the National Science Foundation (NSF), a review of the Geospace Section of the NSF Division of Atmospheric and Geospace Sciences was undertaken in 2015. The Portfolio Review Committee was charged with reviewing the portfolio of facilities, research programs, and activities funded by Geospace Section and to recommend critical capabilities and the balance of investments needed to enable the science program articulated in the 2013 NRC decadal survey Solar and Space Physics: A Science for a Technological Society. The Portfolio Review Committee's report Investments in Critical Capabilities for Geospace Science 2016 to 2025 (ICCGS) was accepted by the Advisory Committee for Geosciences in April 2016. Assessment of the National Science Foundation's 2015 Geospace Portfolio Review provides an independent assessment of the ICCGS report. This publication assesses how well the ICCGS provides a clear set of findings, conclusions, and recommendations for Geospace Section that align with the science priorities of the NRC decadal survey, and adequately take into account issues such as the current budget outlook and the science needs of the community. Additionally, this study makes recommendations focused on options and considerations for NSF's implementation of the ICCGS recommendations.

Learning to Teach in the Secondary School Susan Capel 2016-03-17 Learning to teach involves hard work and careful preparation. To become an effective teacher requires pedagogical and subject knowledge, an understanding of your pupils and how they learn, and the confidence to respond to dynamic classroom situations. Learning to Teach in the Secondary School is the market leading text for all undergraduate, postgraduate and school-based routes to qualified teacher status. It offers an in-depth and practical introduction to the knowledge, skills and understanding needed to become a confident and effective teacher. With a focus on

evidence-based practice, the book includes a wealth of examples to demonstrate how to successfully apply theory to practice, and how to critically analyse your practice to maximise pupil learning. This 7th edition is fully updated in light of the latest initiatives, evidence and research in the field, offering comprehensive coverage, unit by unit, of the key concepts and skills addressed on initial teacher education courses in preparation for work in schools. The wide range of pedagogical features support both university based work - including that up to Masters Level - and school-based initial teacher education, and are designed to help you develop those qualities that lead to good practice and a successful future in education. Written by expert practitioners, thirty-six essential units include: • adopting a positive approach to managing behaviour to support learning • ways pupils learn • planning lessons, units of work and schemes of work • motivating pupils • assessment • inclusion and special educational needs • using ICT and digital technologies • pupil grouping, progression and differentiation • managing time, workload and stress • getting your first teaching post. Learning to Teach in the Secondary School provides practical help and guidance for many of the situations and potential challenges you are faced with in school. Supported by the Learning to Teach Subjects in the Secondary School Series, it is an essential purchase for every aspiring secondary school teacher.

Entrepreneurship Education at Universities Christine K. Volkmann 2017-06-15 This volume discusses entrepreneurship education in Europe on the basis of in-depth case studies of related activities at twenty higher education institutions. Based on a model of entrepreneurship education, the analysis addresses curricular and extra-curricular teaching, as well as the institutional and stakeholder context of delivering entrepreneurship education within higher educational institutions. The book offers both insightful entrepreneurship teaching practices and a discussion of potential organizational drivers and barriers. Accordingly, it provides a valuable resource for researchers, instructors, and managers of entrepreneurship education alike.

Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for 2016 United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Labor, Health and Human Services, Education, and Related Agencies 2015

Global Action on School Library Guidelines Barbara A. Schultz-Jones 2015-06-16 This book celebrates the new IFLA School Library Guidelines and shows how the Guidelines can be used in improving school library services. Each chapter describes innovative initiatives for developing, implementing and promoting school library guidelines. The book provides inspiration and guidance for the creation of national school library standards and for the development and use of standards and guidelines to change school library practice, to define the teaching role of school librarians, to guide the initial preparation of school librarians, and to advocate for school library services. Contributors to the book come from around the world: Australia, Canada, Ethiopia, France, Malaysia, Norway, Poland, Portugal, Spain, Sweden and the United States. Their work illustrates the shared commitment of school librarians around the world to "teaching and learning for all", as envisioned in the IFLA/UNESCO School Library Manifesto.

New Developments in Science and Technology Education Martin Riopel 2016-02-11 This book explores the beneficial impact of pedagogically updated practices and approaches in the teaching of science concepts as well as elaborates on future challenges and emerging issues that address Science and Technology Education. By pointing out new research directions it informs educational practices and bridges

the gap between research and practice providing information, ideas and new perspectives. The book also promotes discussions and networking among scientists and stakeholders such as researchers, professors, students and companies developing educational software and ICT tools. The volume presents papers from the First International Conference on "New Developments in Science and Technology Education" (1st NDSTE) that was structured around four main thematic axes Modern Pedagogies in Science and Technology Education, New Technologies in Science and Technology Education, Teaching and Learning in the light of Inquiry learning Methods and Interest, Attitude and Motivation in Science.

How Much Does a Great School Cost? Barbara J. Smith 2021 This is not another book about school reform. It's about how people can plan for it, afford it, deliver it; and be contributors in the building of great schools.

Offensive Cyber Operations Daniel Moore 2022-08-01 Cyber-warfare is often discussed, but rarely truly seen. When does an intrusion turn into an attack, and what does that entail? How do nations fold offensive cyber operations into their strategies? Operations against networks mostly occur to collect intelligence, in peacetime. Understanding the lifecycle and complexity of targeting adversary networks is key to doing so effectively in conflict. Rather than discussing the spectre of cyber war, Daniel Moore seeks to observe the spectrum of cyber operations. By piecing together operational case studies, military strategy and technical analysis, he shows that modern cyber operations are neither altogether unique, nor entirely novel. Offensive cyber operations are the latest incarnation of intangible warfare--conflict waged through non-physical means, such as the information space or the electromagnetic spectrum. Not all offensive operations are created equal. Some are slow-paced, clandestine infiltrations requiring discipline and patience for a big payoff; others are short-lived attacks meant to create temporary tactical disruptions. This book first seeks to understand the possibilities, before turning to look at some of the most prolific actors: the United States, Russia, China and Iran. Each has their own unique take, advantages and challenges when attacking networks for effect.

Commerce, Justice, Science, and Related Agencies Appropriations for 2015 United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies 2014

Introduction to Physical Therapy - E-Book Michael A. Pagliarulo 2021-01-12 Start your physical therapy career path on the right foot with Introduction to Physical Therapy, 6th Edition. This comprehensive text offers an insightful and thorough overview of both the profession and the practice of physical therapy, including the latest topics and trends surrounding the industry. The first section walks through the key aspects of a career in physical therapy –including the roles of the physical therapist and physical therapist assistant, practice settings, the APTA, laws, policies, and regulations. The second section then goes on to cover the practice of physical therapy – detailing the functions, disorders, and therapies of the major organ systems. This sixth edition also features a new chapter on prevention, health promotion, and wellness in physical therapy practice; as well as updated content, references, and coverage of new trends in health care. Paired with an abundance of learning aides like learning objectives, chapter outlines, review questions, and more; this highly visual text offers the complete foundation needed to successfully grow professional knowledge and skills. Overview of the profession combined with clinical information gives readers a solid foundation in the practice of physical therapy. Chapter on reimbursement covers the fiscal aspects of health care and how reimbursement affects the

profession. Chapter on communication and cultural competence describes how cultural differences influence patient interaction and helps the PTA and PT understand behavior due to cultural differences. Numerous learning aides include chapter outlines, key terms, learning objectives, questions to ask, boxes, tables, summaries and up to date references, suggested readings and review questions. NEW! New chapter on prevention, health promotion, and wellness in physical therapist practice reflects the growing importance in the physical therapy profession. NEW! Revised content and updated references throughout the text ensures content is the most current and applicable for today's PT and PTA professionals. NEW! The latest information on current trends in health care and the profession of physical therapy keeps readers current on the latest issues.

Review of the Draft 2014 Science Mission Directorate Science Plan National Research Council 2013-12-02 NASA's Science Mission Directorate (SMD) is engaged in the final stages of a comprehensive, agency-wide effort to develop a new strategic plan at a time when its budget is under considerable stress. SMD's Science Plan serves to provide more detail on its four traditional science disciplines - astronomy and astrophysics, solar and space physics (also called heliophysics), planetary science, and Earth remote sensing and related activities - than is possible in the agency-wide Strategic Plan. Review of the Draft 2014 Science Mission Directorate Science Plan comments on the responsiveness of SMD's Science Plan to the National Research Council's guidance on key science issues and opportunities in recent NRC decadal reports. This study focuses on attention to interdisciplinary aspects and overall scientific balance; identification and exposition of important opportunities for partnerships as well as education and public outreach; and integration of technology development with the science program. The report provides detailed findings and recommendations relating to the draft Science Plan.

Must Inclusion be Special? Jonathan Rix 2015-06-05 Must Inclusion be Special? examines the discord between special and inclusive education and why this discord can only be resolved when wider inequalities within mainstream education are confronted. It calls for a shift in our approach to provision, from seeing it as a conglomeration of individualised needs to identifying it as a conglomeration of collective needs. The author examines the political, medical and cultural tendency of current times to focus upon the individual and contrasts this with the necessity to focus on context. This book distinguishes the theoretical perspectives that are often associated with special or inclusive education and the broad range of interests which depend upon their ongoing development. This examination leads to a problematisation of mainstream education provision, our understanding of why social inequities emerge and how additional support can overcome these inequities. Further chapters explore the underlying challenges which emerge from our use and understanding of the notions of special and inclusive, outlining an alternative approach based upon a community of provision. This approach recognises the interconnectedness of services and the significance of context, and it encapsulates the aspiration of much international legislation for participation and inclusion for all. But it also assumes that we tend towards diffuse practices, services, policies, settings and roles, spread across provision which is variously inclusive and exclusionary. In seeking to create equitable participation for all, support needs to shift its focus from the individual to this diffuse network of contexts. Must Inclusion be Special? emerges from the research base which problematises inclusion and special education, drawing upon examples from many countries. It also refers to the author's research into

pedagogy, language and policy, and his experiences as a teacher and the parent of a child identified with special educational needs.

Distance Learning Michael Simonson 2016-06-01 Distance Learning is for leaders, practitioners, and decision makers in the fields of distance learning, e'learning, telecommunications, and related areas. It is a professional journal with applicable information for those involved with providing instruction to all kinds of learners, of all ages, using telecommunications technologies of all types. Stories are written by practitioners for practitioners with the intent of providing usable information and ideas. Articles are accepted from authors - new and experienced - with interesting and important information about the effective practice of distance teaching and learning. Distance Learning is published quarterly. Each issue includes eight to ten articles and three to four columns, including the highly regarded "And Finally..." column covering recent important issues in the field and written by Distance Learning editor, Michael Simonson. Articles are written by practitioners from various countries and locations, nationally and internationally. Distance Learning is an official publication of the United States Distance Learning Association, and is co-sponsored by the Fischler School of Education at Nova Southeastern University and Information Age Publishing.

BATES' Guide to Physical Examination and History Taking Uzma Firdaus 2020-04-01 Bates' Guide to Physical Examination and History Taking is designed for undergraduate and postgraduate students in medicine and allied specialties

The Coalition Effect, 2010–2015 Anthony Seldon 2015-03-26 The essential verdict on Britain's first coalition government since the Second World War delivered by an unrivalled team of experts.

Research Handbook on Sports and Society Elizabeth C.K. Pike 2021-05-28 This state-of-the-art Research Handbook provides a challenging and critical examination of the complex issues surrounding sports in contemporary societies. Featuring contributions from world-leading scholars, it focuses upon the impact of their research, together with significant social issues and controversies in sport.

Self-Directed Learning for the 21st Century: Implications for Higher Education Elsa Mentz 2019-12-12 This book is devoted to scholarship in the field of self-directed learning in the 21st century, with specific reference to higher education. The target audience of the book includes scholars in the field of self-directed learning and higher education. The book contributes to the discourse on the quality of education in the 21st century and adds to the body of scholarship in terms of self-directed learning, and specifically its role in higher education. Although all the chapters in the book directly address self-directed learning, the different foci and viewpoints raised make the book a rich knowledge bank of work on self-directed learning.

Learning to Teach Physical Education in the Secondary School Susan Capel 2015-04-24 Praise for previous editions: 'A wealth of advice on generic aspects of teaching and learning in Physical Education ...The accessibility of the text, and constant reference to ways of adapting suggestions to different situations, make this book particularly "user-friendly" and suitable for student-teachers in diverse settings' – European Physical Education Review 'Essential reading for teachers who pride themselves on being "critically reflective"' – Times Educational Supplement The fourth edition of Learning to Teach Physical Education in the Secondary School has been revised and updated in light of the latest research evidence and practice in relation to teaching and learning, and changes in policy and practice within initial teacher education. Key topics covered

include: Starting out as a teacher Planning and evaluation for effective learning and teaching Communication in PE Lesson organisation and management Motivating pupils for learning in PENEW Assessment for and of learning Inclusive approaches to teaching PE Learner-centred teaching and physical literacyNEW Teaching safely and safety in PE Accredited Qualifications in PE Teacher beliefsNEW Developing your own knowledge, skills and understandingNEW This core text guides you to become competent in basic teaching skills, enabling you to cope in a wide range of teaching situations. It emphasises the development of your own professional judgement, your ability to reflect critically on what you are doing, and on your beliefs about teaching PE. Written with university and school-based initial teacher education in mind, Learning to Teach Physical Education in the Secondary School is an essential source of support and guidance for all student teachers of PE embarking on the challenging journey to becoming an effective, successful teacher.

The Underrepresentation of Women in Science: International and Cross-Disciplinary Evidence and Debate Stephen J. Ceci 2018-04-20 There is no shortage of articles and books exploring women's underrepresentation in science. Everyone is interested--academics, politicians, parents, high school girls (and boys), women in search of college majors, administrators working to accommodate women's educational interests; the list goes on. But one thing often missing is an evidence-based examination of the problem, uninfluenced by personal opinions, accounts of "lived experiences," anecdotes, and the always-encroaching inputs of popular culture. This is why this special issue of Frontiers in Psychology can make a difference. In it, a diverse group of authors and researchers with even more diverse viewpoints find themselves united by their empirical, objective approaches to understanding women's underrepresentation in science today. The questions considered within this special issue span academic disciplines, methods, levels of analysis, and nature of analysis; what these article share is their scholarly, evidence-based approach to understanding a key issue of our time.

So, You Want to Work with the Ancient and Recent Dead? J. M. Bedell 2015-10-06 Have you ever been excited by forensic science or psyched to dig up fossils? This comprehensive guide reveals a whole host of careers in the underrated world of the no-longer-living. Covering everything from well known jobs like archaeologists, morticians, coroners, and forensic scientists to the not-so-well-known professions like studying dead stars and planets to playing a zombie on TV, So, You Want to Work With the Ancient and Recent Dead? uncovers a treasure trove of occupational opportunities. In addition to tips and interviews from professionals in the industry, So, You Want to Work With the Ancient and Recent Dead? includes inspiring stories from kids who are working toward an exciting career in the area of "dead things" as well as activities, a glossary, and resources to help you unearth your interests and discover a successful career.

Integrative Approaches to Sustainable Development at University Level Walter Leal Filho 2014-10-09 This book documents and compares the experiences of a wide range of universities across the five continents with regard to sustainable development, making it of special interest to sustainability researchers and practitioners. By showcasing how integrative approaches to sustainable development at the university level can be successfully employed to bridge the gaps between disciplines, the book provides a timely contribution to the literature on sustainability and offers a valuable resource for all those interested in sustainability in a higher education context.

Running Science John Brewer 2019-02-07 Running can encompass the absolute extremes

of human performance, from speed to endurance. Running Science uncovers the fundamental science that underpins this ubiquitous sport, bringing together the study of biomechanics, nutrition, psychology, health and injury prevention, and the technical development of shoes and running surfaces: it's a complete reference.

Convergence National Research Council 2014-06-16 Convergence of the life sciences with fields including physical, chemical, mathematical, computational, engineering, and social sciences is a key strategy to tackle complex challenges and achieve new and innovative solutions. However, institutions face a lack of guidance on how to establish effective programs, what challenges they are likely to encounter, and what strategies other organizations have used to address the issues that arise. This advice is needed to harness the excitement generated by the concept of convergence and channel it into the policies, structures, and networks that will enable it to realize its goals. Convergence investigates examples of organizations that have established mechanisms to support convergent research. This report discusses details of current programs, how organizations have chosen to measure success, and what has worked and not worked in varied settings. The report summarizes the lessons learned and provides organizations with strategies to tackle practical needs and implementation challenges in areas such as infrastructure, student education and training, faculty advancement, and inter-institutional partnerships.

Open Science by Design National Academies of Sciences, Engineering, and Medicine 2018-09-09 Openness and sharing of information are fundamental to the progress of science and to the effective functioning of the research enterprise. The advent of scientific journals in the 17th century helped power the Scientific Revolution by allowing researchers to communicate across time and space, using the technologies of that era to generate reliable knowledge more quickly and efficiently. Harnessing today's stunning, ongoing advances in information technologies, the global research enterprise and its stakeholders are moving toward a new open science ecosystem. Open science aims to ensure the free availability and usability of scholarly publications, the data that result from scholarly research, and the methodologies, including code or algorithms, that were used to generate those data. Open Science by Design is aimed at overcoming barriers and moving toward open science as the default approach across the research enterprise. This report explores specific examples of open science and discusses a range of challenges, focusing on stakeholder perspectives. It is meant to provide guidance to the research enterprise and its stakeholders as they build strategies for achieving open science and take the next steps.

Teaching Primary Art and Design Susan Ogier 2017-06-05 Trainee and beginning teachers often find it hard to plan for and teach good art lessons as there is little guidance on subject knowledge and outstanding practice. This key text will provide primary trainee teachers with subject knowledge, expert advice and guidance along with practical solutions that are necessary to offer children the best possible experiences in art, craft and design, to ensure that they have access to a broad and balanced curriculum. Through guidance and support it will enable them to develop an understanding of the principles and values that underpin high standards and high expectations, and show good progress in the subject.

Teaching and Digital Technologies Michael Henderson 2015-09-25 Teaching and Digital Technologies: Big Issues and Critical Questions helps both pre-service and in-service teachers to critically question and evaluate the reasons for using digital technology in the classroom. Unlike other resources that show how to use

specific technologies – and quickly become outdated, this text empowers the reader to understand why they should (or should not) use digital technologies, when it is appropriate (or not), and the implications arising from these decisions. The text directly engages with policy, the Australian Curriculum, pedagogy, learning and wider issues of equity, access, generational stereotypes and professional learning. The contributors to the book are notable figures from across a broad range of Australian universities, giving the text a unique relevance to Australian education while retaining its universal appeal. Teaching and Digital Technologies is an essential contemporary resource for early childhood, primary and secondary pre-service and in-service teachers in both local and international education environments.

Israel's Technology Economy David Rosenberg 2018-04-07 This book documents how Israel emerged as one of the world's leading centers of high technology over the last three decades and the impact that it has had, or failed to have, on the wider economy and politics. Based on the study of start-up companies, the project attributes the rise of Israel's tech economy to its unique history, political system, and culture, and shows how those same factors have failed it in the quest to diversify its economy to make it more inclusive and equitable. This work will interest economists, political scientists, Israeli studies academics, investors, policy makers, journalists, and business readers.

Order and Fluctuations in Collective Dynamics of Swimming Bacteria Daiki Nishiguchi 2020-01-31 This thesis focuses on experimental studies on collective motion using swimming bacteria as model active-matter systems. It offers comprehensive reviews of state-of-the-art theories and experiments on collective motion from the viewpoint of nonequilibrium statistical physics. The author presents his experimental studies on two major classes of collective motion that had been well studied theoretically. Firstly, swimming filamentous bacteria in a thin fluid layer are shown to exhibit true, long-range orientational order and anomalously strong giant density fluctuations, which are considered universal and landmark signatures of collective motion by many numerical and theoretical works but have never been observed in real systems. Secondly, chaotic bacterial turbulence in a three-dimensional dense suspension without any long-range order as described in the first half is demonstrated to be capable of achieving antiferromagnetic vortex order by imposing a small number of constraints with appropriate periodicity. The experimental results presented significantly advance our fundamental understanding of order and fluctuations in collective motion of motile elements and their future applications.

Affordability of National Flood Insurance Program Premiums National Academies of Sciences, Engineering, and Medicine 2016-02-21 When Congress authorized the National Flood Insurance Program (NFIP) in 1968, it intended for the program to encourage community initiatives in flood risk management, charge insurance premiums consistent with actuarial pricing principles, and encourage the purchase of flood insurance by owners of flood prone properties, in part, by offering affordable premiums. The NFIP has been reauthorized many times since 1968, most recently with the Biggert-Waters Flood Insurance Reform Act of 2012 (BW 2012). In this most recent reauthorization, Congress placed a particular emphasis on setting flood insurance premiums following actuarial pricing principles, which was motivated by a desire to ensure future revenues were adequate to pay claims and administrative expenses. BW 2012 was designed to move the NFIP towards risk-based premiums for all flood insurance policies. The result was to be increased premiums for some policyholders that had been paying less than NFIP risk-based premiums and

to possibly increase premiums for all policyholders. Recognition of this possibility and concern for the affordability of flood insurance is reflected in sections of the Homeowner Flood Insurance Affordability Act of 2014 (HFIAA 2014). These sections called on FEMA to propose a draft affordability framework for the NFIP after completing an analysis of the efforts of possible programs for offering "means-tested assistance" to policyholders for whom higher rates may not be affordable. BW 2012 and HFIAA 2014 mandated that FEMA conduct a study, in cooperation with the National Academies of Sciences, Engineering, and Medicine, which would compare the costs of a program of risk-based rates and means-tested assistance to the current system of subsidized flood insurance rates and federally funded disaster relief for people without coverage. Production of two reports was agreed upon to fulfill this mandate. This second report proposes alternative approaches for a national evaluation of affordability program policy options and includes lessons for the design of a national study from a proof-of-concept pilot study.

Review of the 21st Century Truck Partnership National Academies of Sciences, Engineering, and Medicine 2015-11-25 The 21st Century Truck Partnership (21CTP) works to reduce fuel consumption and emissions, increase heavy-duty vehicle safety, and support research, development, and demonstration to initiate commercially viable products and systems. This report is the third in a series of three by the National Academies of Sciences, Engineering, and Medicine that have reviewed the research and development initiatives carried out by the 21CTP. Review of the 21st Century Truck Partnership, Third Report builds on the Phase 1 and 2

reviews and reports, and also comments on changes and progress since the Phase 2 report was issued in 2012.

Teaching and Learning for Social Justice and Equity in Higher Education C. Casey Ozaki 2021-04-21 This book explores theory and best practices to improve teaching and learning to promote equity in the classroom in specific disciplinary areas including STEM, healthcare, and the humanities. Each chapter includes actionable pedagogical or curricular recommendations such as course assignments and lesson plans. This is the second of four edited volumes focusing on applications of the Scholarship of Teaching and Learning (SoTL) for more equitable learning opportunities.

Intelligent Interactive Multimedia Systems and Services 2017 Giuseppe De Pietro 2017-05-26 This book constitutes the refereed proceedings of the Tenth International KES Conference on Intelligent Interactive Multimedia Systems and Services: IIMSS-17. It includes 57 full papers organized into topical sections, ranging from visual data processing to big data analytics, and from multimedia to intelligent and cognitive systems. The conference took place as part of the Smart Digital Futures 2017 multi-theme conference, held in Vilamoura, Algarve, Portugal on 21–23 June 2017, which brings together AMSTA, IDT, InHorizons, InMed, SEEL and IIMSS in one venue. It provided an international forum for researchers and scientists to share their work and experiences in the field of multimedia and intelligent interactive systems and services.

Daily Graphic Ransford Tetteh 2014-04-09

America COMPETES Reauthorization Act of 2015 United States. Congress. House. Committee on Science and Technology (2007-2011) 2015