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KEY=10 - WILEY RIGGS

Science Education Research and Practices in Taiwan Challenges and Opportunities

Springer *This book highlights the development and outcomes of research on and practical experience in science education in Taiwan. As the outcomes of the scholarship on science education in Taiwan have garnered attention in science education communities around the world, this book gathers the most relevant research on Taiwan, presenting it in a cohesive overview that will move science education forward in terms of policy, research and practice.*

The Oxford Handbook of the Social Science of Poverty

Oxford University Press *The Oxford Handbook of the Social Science of Poverty builds a common scholarly ground in the study of poverty by bringing together an international and interdisciplinary group of scholars to provide diverse perspectives on the issue.*

The Rise of Africa's Middle Class

Myths, Realities and Critical Engagements

Zed Books Ltd. *Across Africa, a burgeoning middle class has become the poster child for the 'Africa rising' narrative. Ambitious, aspirational and increasingly affluent, this group is said to embody the values and hopes of the new Africa, with international bodies ranging from the United Nations Development Programme to the World Bank regarding them as important agents of both economic development and democratic change. This narrative, however, obscures the complex and often ambiguous role that this group actually plays in African societies. Bringing together economists, political scientists, anthropologists and development experts, and spanning a variety of case studies from across the continent, this collection provides a much-needed corrective to the received wisdom within development circles, and provides a fresh perspective on social transformations in contemporary Africa.*

Primary Science Education in East Asia

A Critical Comparison of Systems and Strategies

Springer *This edited volume is a state-of-the-art comparison of primary science education across six East-Asian regions; namely, the People's Republic of China, Republic of Korea, Republic of China, Hong Kong SAR, Japan, and Singapore. While news of educational policies, classroom teaching, assessment, and other educational innovations here often surface in the international media, this book brings together for the first time relevant information regarding educational systems and strategies in primary science in East Asia. Above all, it is a readable yet comprehensive survey—readers would have an accurate sense of what has been accomplished, what has not worked so well, and what remains to be done. Invited experts in comparative education research and/or science education also provide commentary by discussing common themes across the six regions. These types of critical synoptic reviews add much value by enabling readers to understand broad commonalities and help synthesize what must surely be a bewildering amount of very interesting albeit confusing body of facts, issues, and policies. Education in East Asia holds many lessons (both positive and negative) to offer to the rest of the world to which this volume is a timely contribution to the literature.*

The National Curriculum in England (2020 Update)

In this UPDATED edition of the National Curriculum for England for Key Stages 1 and 2, you will find full programmes of study for all 11 original primary subjects plus three new subjects: Relationships Education; Relationships and Sex Education; and Health Education (to be taught in English schools in September 2020). The National Curriculum for England sets out the framework for the national curriculum at key stages 1 and 2. This statutory guidance includes information about the school curriculum and the national curriculum the aims for the national curriculum statements on inclusion, and on pupils' competence in numeracy and maths, language

and literacy across the school programmes of study for KS 1 and 2 for all the subjects that are taught at these key stages.

Handbook of Child Psychology and Developmental Science, Socioemotional Processes

John Wiley & Sons *The essential reference for human development theory, updated and reconceptualized The Handbook of Child Psychology and Developmental Science, a four-volume reference, is the field-defining work to which all others are compared. First published in 1946, and now in its Seventh Edition, the Handbook has long been considered the definitive guide to the field of developmental science. Volume 3: Social, Emotional, and Personality Development presents up-to-date knowledge and theoretical understanding of the several facets of social, emotional and personality processes. The volume emphasizes that any specific processes, function, or behavior discussed in the volume co-occurs alongside and is inextricably affected by the dozens of other processes, functions, or behaviors that are the focus of other researchers' work. As a result, the volume underscores the importance of a focus on the whole developing child and his or her sociocultural and historical environment. Understand the multiple processes that are interrelated in personality development Discover the individual, cultural, social, and economic processes that contribute to the social, emotional, and personality development of individuals Learn about the several individual and contextual contributions to the development of such facets of the individual as morality, spirituality, or aggressive/violent behavior Study the processes that contribute to the development of gender, sexuality, motivation, and social engagement The scholarship within this volume and, as well, across the four volumes of this edition, illustrate that developmental science is in the midst of a very exciting period. There is a paradigm shift that involves increasingly greater understanding of how to describe, explain, and optimize the course of human life for diverse individuals living within diverse contexts. This Handbook is the definitive reference for educators, policy-makers, researchers, students, and practitioners in human development, psychology, sociology, anthropology, and neuroscience.*

Assessing Mathematical Literacy

The PISA Experience

Springer *This book describes the design, development, delivery and impact of the mathematics assessment for the OECD Programme for International Student Assessment (PISA). First, the origins of PISA's concept of mathematical literacy are discussed, highlighting the underlying themes of mathematics as preparation for life after school and mathematical modelling of the real world, and clarifying PISA's position within this part of the mathematics education territory. The PISA mathematics framework is introduced as a significant milestone in the development and dissemination of these ideas. The underlying mathematical competencies on which mathematical literacy so strongly depends are described, along with a scheme to use them in item creation and analysis. The development and implementation of the PISA survey and the consequences for the outcomes are thoroughly discussed. Different kinds of items for both paper-based and computer-based PISA surveys are exemplified by many publicly released items along with details of scoring. The novel survey of the opportunity students have had to learn the mathematics promoted through PISA is explained. The book concludes by surveying international impact. It presents viewpoints of mathematics educators on how PISA and its constituent ideas and methods have influenced teaching and learning practices, curriculum arrangements, assessment practices, and the educational debate more generally in fourteen countries.*

Immunisation against infectious diseases

The Stationery Office *This is the third edition of this publication which contains the latest information on vaccines and vaccination procedures for all the vaccine preventable infectious diseases that may occur in the UK or in travellers going outside of the UK, particularly those immunisations that comprise the routine immunisation programme for all children from birth to adolescence. It is divided into two sections: the first section covers principles, practices and procedures, including issues of consent, contraindications, storage, distribution and disposal of vaccines, surveillance and monitoring, and the Vaccine Damage Payment Scheme; the second section covers the range of different diseases and vaccines.*

Global Innovation Index 2016

Winning the Global Innovation

WIPO *The Global Innovation Index ranks the innovation performance of 128 countries and economies around the world, based on 82 indicators. This edition explores the impact of innovation-oriented policies on economic growth and development. High-income and developing countries alike are seeking innovation-driven growth through different strategies. Some countries are successfully improving their innovation capacity, while others still struggle.*

Educart CBSE Maths Standard Sample Question Papers

For Class 10 (For March 2020 Exam)

Strictly based on 20th September 2019 CBSE Sample Paper

Educart NEW VERSION: Available now based on the 20th September 2019 CBSE Sample Paper. This Maths (Standard) book is extra special as it was prepared by a CBSE author who knows about CBSE markings, official paper setting and CBSE Class 10th Exam patterns more than any other CBSE expert in the country. We were lucky to have him prepare the papers of this Maths book. It's been bought by more than 20,000+ students since it came out in October 2019 and is our best-seller already. This Book Covers the following: - 10 Practice Papers (solved) - 4 Self-assessment papers - CBSE September 2019 Sample Paper - CBSE March 2019 Board Paper (solved by topper) - CBSE 2018 Topper Answer Sheet Extra value items Added in this Book: - Utilising 15 minute reading time just before the exam (by CBSE topper) - Structuring your Maths Exam 3 hours smartly (by CBSE Markers) - 2020 marking scheme points (value points) underlined in each sample paper solution (CBSE markers look for these key points in your answers to allot full Marks). - The geometry section diagrams are accurately drawn to clear your understanding of all kinds of geometry questions that can appear in the upcoming February 2020 exam. A must buy book as vouched by many experts in Mathematics!

The 2014 Primary National Curriculum in England

Key Stage 1 & 2 Framework

The Encyclopedia of Middle Grades Education (2nd ed.)

IAP The second edition of *The Encyclopedia of Middle Grades Education* has been revised, updated, and expanded since its original publication in 2005. The Encyclopedia is a comprehensive overview of the field; it contains alphabetically organized entries that address important concepts, ideas, terms, people, organizations, publications, and research studies specifically related to middle grades education. This edition contains over 210 entries from nearly 160 expert contributors, this is a 25% increase in the number of entries over the first edition. The Encyclopedia is aimed at a general audience including undergraduate students in middle-level teacher preparation programs, graduate students, higher education faculty, and practitioners and administrators. The comprehensive list of entries are comprised of both short entries (500 words) and longer entries (2000 words). A significant number of entries appearing in the first edition have been revised and updated. Citations and references are provided for each entry.

Intergenerational learning and transformative leadership for sustainable futures

Wageningen Academic Publishers The work of creating the future is being done now – and much of it is unsustainable in terms of natural and cultural resources. How will the next generation of leadership for environmental sustainability be raised up? Can we imagine sustainable futures, and can we enable transformative leadership to help us realize them? How can we best ensure that the several generations share their particular knowledge? What are the ethical frameworks, methodologies, curricula, and tools necessary for advancing and strengthening education for intergenerational sustainability learning and leadership? In this book, 82 authors from 26 countries across 6 continents seek answers in 32 essays to the many questions related to the intergenerational collaboration that holds promise for creating sustainable futures. The authors themselves represent a diversity of geography, gender, and generation – and include the institutions comprising the emerging International Intergenerational Network of Centers. They speak to key principles, perspectives, and praxes at the intersection of intergenerational learning and transformative leadership in the context of education for sustainability. A visionary tour de force, this book explores the challenges and complexities of future learning models beyond the UN Decade of Education for Sustainable Development. It provides a timely discourse encompassing intergenerational and cultural dimensions, including ethics. Contributors articulate a deeper understanding of leadership in the post-Enlightenment era. Chapters in the book offer examples cutting across a diverse range of experiences worldwide, making this volume not only refreshing for practitioners, but also invaluable to policy-makers. – Dzulkifli Abdul Razak President, International Association of Universities Former Vice-Chancellor, Universiti Sains Malaysia These are critical times for the global community. Big issues are on the table: security, climate change, environmental destabilization, disease, hunger, and others. Actions we take today must embrace lessons from the past, present realities, and the rights and interests of future generations. Indeed, intergenerational learning is vital to education for sustainable development. This book makes a very timely and urgent call, challenging our traditional learning approaches and inviting us to dig deeper, stretch our minds wider, and see farther. – Akpezi Ogbuigwe Former Head of Environmental Education and Training, United Nations Environment Programme Executive Chairperson, Anpez Center for Environment and Development, Port Harcourt, Nigeria Achieving sustainable development requires generations, young and old, to engage with and learn from each other, and for leadership to embrace change. That is one of the key messages of this remarkable book. I wish I had this book when I took up the leadership role of my university two decades ago. I wish I could have given this book to my sons as they started their university education. – Goolam Mohamedbhai Former Secretary-General, Association of African Universities Honorary President, International Association of Universities

Strategic Sustainability

A Natural Environmental Lens on Organizations and Management

Routledge *Strategic Sustainability* examines how organizations can implement environmental sustainability science, theories, and ways of thinking to become more competitive. Including examples and ideas implemented in various countries, it is based on known scientific principles about the natural world and organizational principles focusing on the work domain. The intersection of these two realms of research creates a powerful and new approach to comprehensive, seemingly contradictory issues. Daniel S. Fogel draws from disparate fields and creates a story about organizations, their future and how people are part of the problem and, more importantly, part of the solution. Readers will find ways to take action to improve organizations and avoid denigrating our natural environment, learning to be mindful of the urgency we should feel to improve our impact on the world. The focus on the natural environment provides a powerful focus for creating value in organizations and addressing the major challenges we all face. Advanced sustainability students, working professionals and board members, managers and legislators responsible for governing organizations or implementing public policy will find this book useful. A companion website features an instructor's manual with test questions, as well as 38, 10-minute videos for classroom use.

Reconceptualising Learning in the Digital Age

The [Un]democratising Potential of MOOCs

Springer This book situates Massive Open Online Courses and open learning within a broader educational, economic and social context. It raises questions regarding whether Massive Open Online Courses effectively address demands to open up access to education by triggering a new education order, or merely represent reactionary and unimaginative responses to those demands. It offers a fresh perspective on how we conceptualise learners and learning, teachers and teaching, accreditation and quality, and how these dimensions fit within the emerging landscape of new forms of open learning.

Handbook of Research on Science Education

Routledge Building on the foundation set in Volume I—a landmark synthesis of research in the field—Volume II is a comprehensive, state-of-the-art new volume highlighting new and emerging research perspectives. The contributors, all experts in their research areas, represent the international and gender diversity in the science education research community. The volume is organized around six themes: theory and methods of science education research; science learning; culture, gender, and society and science learning; science teaching; curriculum and assessment in science; science teacher education. Each chapter presents an integrative review of the research on the topic it addresses—pulling together the existing research, working to understand the historical trends and patterns in that body of scholarship, describing how the issue is conceptualized within the literature, how methods and theories have shaped the outcomes of the research, and where the strengths, weaknesses, and gaps are in the literature. Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research, the *Handbook of Research on Science Education, Volume II* is an essential resource for the entire science education community.

Cybersecurity in China

The Next Wave

Springer This book offers the first benchmarking study of China's response to the problems of security in cyber space. There are several useful descriptive books on cyber security policy in China published between 2010 and 2016. As a result, we know quite well the system for managing cyber security in China, and the history of policy responses. What we don't know so well, and where this book is useful, is how capable China has become in this domain relative to the rest of the world. This book is a health check, a report card, on China's cyber security system in the face of escalating threats from criminal gangs and hostile states. The book also offers an assessment of the effectiveness of China's efforts. It lays out the major gaps and shortcomings in China's cyber security policy. It is the first book to base itself around an assessment of China's cyber industrial complex, concluding that China does not yet have one. As Xi Jinping said in July 2016, the country's core technologies are dominated by foreigners.

Frontiers in Software Engineering Education

First International Workshop, FISEE 2019, Villebrumier,

France, November 11-13, 2019, Invited Papers

Springer Nature *This book constitutes invited papers from the First International Workshop on Frontiers in Software Engineering Education, FISEE 2019, which took place during November 11-13, 2019, at the Château de Villebrumier, France. The 25 papers included in this volume were considerably enhanced after the conference and during two different peer-review phases. The contributions cover a wide range of problems in teaching software engineering and are organized in the following sections: Course experience; lessons learnt; curriculum and course design; competitions and workshops; empirical studies, tools and automation; globalization of education; and learning by doing. The final part "TOOLS Workshop: Artificial and Natural Tools (ANT)" contains submissions presented at a different, but related, workshop run at Innopolis University (Russia) in the context of the TOOLS 2019 conference. FISEE 2019 is part of a series of scientific events held at the new LASER center in Villebrumier near Montauban and Toulouse, France.*

State Capitalism

How the Return of Statism is Transforming the World

Oxford University Press *The end of the Cold War ushered in an age of American triumphalism best characterized by the "Washington Consensus:" the idea that free markets, democratic institutions, limitations on government involvement in the economy, and the rule of law were the foundations of prosperity and stability. The last fifteen years, starting with the Asian financial crisis, have seen the gradual erosion of that consensus. Many commentators have pointed to the emergence of a powerful new rival model: state capitalism. In state capitalist regimes, the government typically owns firms in strategic industries. Not beholden to private-sector shareholders, such firms are allowed to operate with razor-thin margins if the state deems them strategically important. China, soon to be the world's largest economy, is the best known state capitalist regime, but it is hardly the only one. In State Capitalism, Joshua Kurlantzick ranges across the world--China, Thailand, Brazil, Russia, South Africa, Turkey, and more--and argues that the increase in state capitalism across the globe has, on balance, contributed to a decline in democracy. He isolates some of the reasons for state capitalism's resurgence: the fact that globalization favors economies of scale in the most critical industries, and the widespread rejection of the Washington Consensus in the face of the problems that have plagued the world economy in recent years. That said, a number of democratic nations have embraced state capitalism, and in those regimes, state-backed firms like Brazil's Embraer have enjoyed considerable success. Kurlantzick highlights the mixed record and the evolving nature of the model, yet he is more concerned about the negative effects of state capitalism. When states control firms, whether in democratic or authoritarian regimes, the government increases its advantage over the rest of society. The combination of new technologies, the perceived failures of liberal economics and democracy in many developing nations, the rise of modern kinds of authoritarians, and the success of some of the best-known state capitalists have created an era ripe for state intervention. State Capitalism offers the sharpest analysis yet of what state capitalism's emergence means for democratic politics around the world.*

Soft Computing in Data Science

Second International Conference, SCDS 2016, Kuala Lumpur, Malaysia, September 21-22, 2016, Proceedings

Springer *This book constitutes the refereed proceedings of the International Conference on Soft Computing in Data Science, SCDS 2016, held in Putrajaya, Malaysia, in September 2016. The 27 revised full papers presented were carefully reviewed and selected from 66 submissions. The papers are organized in topical sections on artificial neural networks; classification, clustering, visualization; fuzzy logic; information and sentiment analytics.*

High-Skilled Migration

Drivers and Policies

Oxford University Press *Political and scientific debates on migration policies have mostly focused on governments' efforts to control or reduce low-skilled, asylum, and irregular migration or to encourage the return migration of these categories. Less research and constructive discourse has been conducted on the role and effectiveness of policies to attract or retain high-skilled workers. An improved understanding of the drivers and dynamics of high-skilled migration is essential for effective policy-making, as most highly developed and emerging economies experience growing shortages of high-skilled labour supply in certain occupations and sectors, and skilled immigration is often viewed as one way of addressing these. Simplistic assumptions that high-skilled migrants are primarily in pursuit of higher wages raise the expectation that policies which open channels for high-skilled immigration are generally successful. Although many countries have introduced policies aimed at attracting and facilitating the recruitment of high-skilled workers, not all recruitment efforts have had the desired effects, and anecdotal evidence on the effectiveness of these programmes is rather mixed. The reason is that the rather narrow focus on migration policy coincides with a lack of systematic and rigorous consideration of other economic, social, and political drivers of migration, which may be equally - or sometimes even more - important than migration policies per se. A better understanding of migration policies, their making, consequences and limitations,*

requires a systematic knowledge of the broader economic, social and political structures and their interaction in both origin and destination countries. This book enhances this vibrant field of social scientific enquiry by providing a systematic, multidisciplinary, and global analysis of policies driving international high-skilled migration processes in their interaction with other migration drivers at the individual, city, national, and international level.

The Global Innovation Index 2014

The Human Factor in Innovation

WIPO The Global Innovation Index ranks the innovation performance of 143 countries and economies around the world, based on 81 indicators. This edition explores the role of the individuals and teams behind the innovation process. It sheds light on different aspects of human capital required to achieve innovation, including skilled labor; the intersection of human, financial and technological capital; talent retention; and the mobilization of highly educated people.

Data Science for Economics and Finance

Methodologies and Applications

Springer Nature This open access book covers the use of data science, including advanced machine learning, big data analytics, Semantic Web technologies, natural language processing, social media analysis, time series analysis, among others, for applications in economics and finance. In addition, it shows some successful applications of advanced data science solutions used to extract new knowledge from data in order to improve economic forecasting models. The book starts with an introduction on the use of data science technologies in economics and finance and is followed by thirteen chapters showing success stories of the application of specific data science methodologies, touching on particular topics related to novel big data sources and technologies for economic analysis (e.g. social media and news); big data models leveraging on supervised/unsupervised (deep) machine learning; natural language processing to build economic and financial indicators; and forecasting and nowcasting of economic variables through time series analysis. This book is relevant to all stakeholders involved in digital and data-intensive research in economics and finance, helping them to understand the main opportunities and challenges, become familiar with the latest methodological findings, and learn how to use and evaluate the performances of novel tools and frameworks. It primarily targets data scientists and business analysts exploiting data science technologies, and it will also be a useful resource to research students in disciplines and courses related to these topics. Overall, readers will learn modern and effective data science solutions to create tangible innovations for economic and financial applications.

Educational Practices in Germany: An Overview

Penerbit USM Educational Practices in Germany: An Overview discusses the Malaysian and German researchers' perspective on the educational practices in German schools. The foci of this book are on the education system, classroom management and teacher education, integration of ICT in classrooms, teaching and learning of science and mathematics at the secondary school level, influence of cultural aspects as well as extracurricular activities in German schools.

Computational Experiment Approach to Advanced Secondary Mathematics Curriculum

Springer Science & Business Media This book promotes the experimental mathematics approach in the context of secondary mathematics curriculum by exploring mathematical models depending on parameters that were typically considered advanced in the pre-digital education era. This approach, by drawing on the power of computers to perform numerical computations and graphical constructions, stimulates formal learning of mathematics through making sense of a computational experiment. It allows one (in the spirit of Freudenthal) to bridge serious mathematical content and contemporary teaching practice. In other words, the notion of teaching experiment can be extended to include a true mathematical experiment. When used appropriately, the approach creates conditions for collateral learning (in the spirit of Dewey) to occur including the development of skills important for engineering applications of mathematics. In the context of a mathematics teacher education program, the book addresses a call for the preparation of teachers capable of utilizing modern technology tools for the modeling-based teaching of mathematics with a focus on methods conducive to the improvement of the whole STEM education at the secondary level. By the same token, using the book's pedagogy and its mathematical content in a pre-college classroom can assist teachers in introducing students to the ideas that develop the foundation of engineering profession.

The nutrition and health potential of geographical indication foods

Food & Agriculture Org. Traditional foods, diets and food systems play an important role in people's nutritional status. As the best products of traditional food systems, geographical indication (GI) foods have a great potential to contribute to healthy diets and curb non-communicable diseases. This paper presents five case studies around the world on the nutritional potential of registered GI foods

and explores the link between the production processes and the nutritional composition of the final products. The nutritional characteristics of these foods can be largely attributed to their unique ingredients and production procedures, which are linked to their geographical origins. The paper also discusses the development of GI specifications to maintain and improve nutritional values, the role of GI foods in healthy diets, and the determination of food composition. Finally, suggestions on how to leverage GI foods for healthy diets are provided.

Strengthening Forensic Science in the United States

A Path Forward

National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. *Strengthening Forensic Science in the United States* gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

The Free-market Family

How the Market Crushed the American Dream (and how it Can be Restored)

Oxford University Press, USA A steady drumbeat of bad news about the state of our nation has convinced Americans that our country has gone off the rails. But where, exactly, did we go wrong? Maxine Eichner argues that the problem is that market pressures are overwhelming American families today. Eichner links "free-market family policy," a system in which families must fend for themselves without help from the government, to unstable relationships, reduced lifespans, kids' declining academic achievement, and low levels of happiness, compared with other wealthy countries. What's called for, she argues, is market regulation and an economy structured around supporting families.

Behavioral Science & Policy

Brookings Institution Press The success of nearly all public- and private- sector policies hinges on the behavior of individuals, groups, and organizations. Today, such behaviors are better understood than ever, thanks to a growing body of practical behavioral science research. However, policymakers often are unaware of behavioral science findings that may help them craft and execute more effective and efficient policies. The pages of this new journal will become a meeting ground: a place where scientists and non-scientists can encounter clearly described behavioral research that can be put into action. By design, the scope of BSP is broad, with topics spanning health care, financial decisionmaking, energy and the environment, education and culture, justice and ethics, and work place practices. Contributions will be made by researchers with expertise in psychology, sociology, law, behavioral economics, organization science, decision science, and marketing. The journal is a key offering of the Behavioral Science & Policy Association in partnership with the Brookings Institution. The mission of BSPA is to foster dialog between social scientists, policymakers, and other practitioners in order to promote the application of rigorous empirical behavioral science in ways that serve the public interest. BSPA does not advance a particular agenda or political perspective. The first issue's contents follow. *Behavioral Science & Policy*, vol. 2, no. 1 Table of Contents: Editors' Note Spotlight—Pre-Kindergarten Interventions: American Policy on Early Childhood Education & Development: Many Programs, Great Hopes, Modest Prospects, Ron Haskins Evidence for the Benefits of State Prekindergarten Programs: Myth & Misrepresentation, Dale C. Farran & Mark W. Lipsey Reforming Head Start for the 21st Century: A Policy Prescription, Sara Mead & Ashley LiBetti Mitchel Home Visiting Programs: Four Evidence-Based Lessons for Policymakers, Cynthia Osborne Launching Preschool 2.0: A Road Map to High-Quality Public Programs at Scale, Christina Weiland A 10-Year Strategy of Increased Coordination & Comprehensive Investments in Early Child Development, Ajay Chaudry & Jane Waldfogel Reimagining Accountability in K-12 Education, Brian P. Gill, Jennifer S. Lerner, & Paul Meosky Featured Topic: Healthy Through Habit: Interventions for Initiating & Maintaining Health Behavioral Change, Wendy Wood & David Neal Making the Truth Stick & the Myths Fade: Lessons from Cognitive Psychology, Norbert Schwarz, Eryn Newman, & William Leach Editorial Policy

New Digital Technology in Education

Conceptualizing Professional Learning for Educators

Springer *This book addresses the issues confronting educators in the integration of digital technologies into their teaching and their students' learning. Such issues include a skepticism of the added value of technology to educational learning outcomes, the perception of the requirement to keep up with the fast pace of technological innovation, a lack of knowledge of affordable educational digital tools and a lack of understanding of pedagogical strategies to embrace digital technologies in their teaching. This book presents theoretical perspectives of learning and teaching today's digital students with technology and propose a pragmatic and sustainable framework for teachers' professional learning to embed digital technologies into their repertoire of teaching strategies in a systematic, coherent and comfortable manner so that technology integration becomes an almost effortless pedagogy in their day-to-day teaching. The materials in this book are comprised of original and innovative contributions, including empirical data, to existing scholarship in this field. Examples of pedagogical possibilities that are both new and currently practised across a range of teaching contexts are featured.*

Inequalities in the UK

New Discourses, Evolutions and Actions

Emerald Group Publishing *This book addresses the question of the extent of and responses to inequalities in the UK in 2017 in the wake of the 2008 Great Recession. Inequality is the issue that won't go away, a real world issue affecting all facets of society with political and economic developments such as austerity measures, Brexit and changes in political leadership impacting the inequality landscape. Six of the chapters examine the extent of economic inequalities and poverty using quantitative and qualitative methods that help map regional differences, compare the UK with the rest of the EU and go beyond the traditional measures and concepts. Seven chapters explore how inequalities have evolved since 2008 and have been tackled by policy makers in five policy areas (health, housing, education, gender and immigration) taking into account the new legislative framework and in one party (labour). Finally, six others address the issue of the governance of inequality by looking at how inequality features in the political agenda of the devolved assemblies in Northern Ireland, Scotland, Wales as well as at a local level in Ipswich and London. Based on recent surveys and current academic thinking, this book provides an up-to-date account of the extent and distribution of inequalities in the UK, of the evolving ways in which inequalities are measured and addressed as well as the changing perception of inequalities by the general public and policy-makers.*

Food Science

Jones & Bartlett Learning *Food Science: An Ecological Approach presents the field of food science—the study of the physical, biological, and chemical makeup of food, and the concepts underlying food processing—in a fresh, approachable manner that places it in the context of the world in which we live today.*

Creating Stellar Lessons with Digital Tools

From Integration to Innovation in Technology-Enhanced Teaching

Routledge *Creating Stellar Lessons with Digital Tools prepares teachers in training and in-service teachers to use technologies for design and development activities with middle and high school students. While software, open resources, handheld devices, and other tools hold great potential to enhance learning experiences, teachers themselves must model technology use in ways that inspire students to become producers and leaders rather than consumers and followers. Featuring concrete applications in social studies, English, mathematics, and science scenarios, this book provides pre-service teachers with seven paths to creatively integrate and innovate with computational thinking, datasets, maker spaces, visual design, media editing, and other approaches.*

Atlas of Knowledge

Anyone Can Map

MIT Press *The power of mapping: principles for visualizing knowledge, illustrated by many stunning large-scale, full-color maps. Maps of physical spaces locate us in the world and help us navigate unfamiliar routes. Maps of topical spaces help us visualize the extent and structure of our collective knowledge; they reveal bursts of activity, pathways of ideas, and borders that beg to be crossed. This book, from the author of Atlas of Science, describes the power of topical maps, providing readers with principles for visualizing knowledge and offering as examples forty large-scale and more than 100 small-scale full-color maps. Today, data literacy is becoming as important as language literacy. Well-designed visualizations can rescue us from a sea of data, helping us to make sense of information, connect ideas, and make better decisions in real time. In Atlas of Knowledge, leading visualization expert Katy Börner makes the case for a systems science approach to science and technology studies and explains different types and levels of analysis. Drawing on fifteen years of teaching and tool development, she introduces a theoretical framework meant to guide readers through*

user and task analysis; data preparation, analysis, and visualization; visualization deployment; and the interpretation of science maps. To exemplify the framework, the Atlas features striking and enlightening new maps from the popular "Places & Spaces: Mapping Science" exhibit that range from "Key Events in the Development of the Video Tape Recorder" to "Mobile Landscapes: Location Data from Cell Phones for Urban Analysis" to "Literary Empires: Mapping Temporal and Spatial Settings of Victorian Poetry" to "Seeing Standards: A Visualization of the Metadata Universe." She also discusses the possible effect of science maps on the practice of science.

Computer Science Education

Perspectives on Teaching and Learning in School

Bloomsbury Publishing Drawing together the most up-to-date research from experts all across the world, *Computer Science Education* provides full, current coverage of a teaching subject that's still developing. It offers the most up-to-date coverage available on this developing subject, ideal for building confidence of new PGCE students teaching a very new discipline, exploring key concepts, pedagogical approaches and assessment practices. Highlights include: - a comprehensive taxonomy of programming misconceptions from Juha Sorva - an up-to-date discussion of computational thinking by Shuchi Grover and Roy Pea - a detailed look at issues of equity in computer science education by Jill Denner and Shannon Campe - teachers' and pupils' attitudes are considered by Quintin Cutts and Peter Donaldson - Paul Curzon and colleagues explore a range of different strategies for teaching computer science concepts - Ira Diethelm and her colleagues highlight the difficulties presented by the language we use to talk about computer science. The book is structured to support the reader with chapter outlines, synopses and key points. Explanations of key concepts, real-life examples and reflective points keep the theory grounded in classroom practice.

Teacher's Guide to Using the Next Generation Science Standards With Gifted and Advanced Learners

Routledge *A Teacher's Guide to Using the Next Generation Science Standards With Gifted and Advanced Learners* provides teachers and administrators with practical examples of ways to build comprehensive, coherent, and rigorous science learning experiences for gifted and advanced students from kindergarten to high school. It provides an array of examples across the four domains of science: physical sciences; Earth and space sciences; life sciences; and engineering, technology, and applications of science. Each learning experience indicates the performance expectation addressed and includes a sequence of activities, implementation examples, connections to the CCSS-Math and CCSS-ELA, and formative assessments. Chapters on specific instructional and management strategies, assessment, and professional development suggestions for implementing the standards within the classroom will be helpful for both teachers and administrators.

Early Education Curriculum: A Child's Connection to the World

Cengage Learning Packed with hands-on tips, Beaver/Wyatt's *EARLY EDUCATION CURRICULUM: A CHILD'S CONNECTION TO THE WORLD*, 8th Edition, shows you how to conduct observations and assessments, plan and implement a curriculum, set up an inclusive child-centered environment, plan developmentally appropriate activities in 11 subject areas and use technology in early learning programs. Students and experienced teachers alike will learn how to make informed decisions about curriculum content, develop creative thinking skills and effectively apply development and learning theory. Updated with the latest research and national standards, the 8th Edition presents material on brain research that underlies teaching ideas as well as information on reflective practice, intentional teaching, the environment as a teaching tool and equity and diversity. Case studies enable you to apply your knowledge to real-life issues. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Current Research in Biology Education

Selected Papers from the ERIDOB Community

Springer Nature

Global Action on School Library Guidelines

Walter de Gruyter GmbH & Co KG 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.

The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies

W. W. Norton & Company A New York Times Bestseller. A “fascinating” (Thomas L. Friedman, *New York Times*) look at how digital technology is transforming our work and our lives. In recent years, Google’s autonomous cars have logged thousands of miles on American highways and IBM’s Watson trounced the best human *Jeopardy!* players. Digital technologies—with hardware, software, and networks at their core—will in the near future diagnose diseases more accurately than doctors can, apply enormous data sets to transform retailing, and accomplish many tasks once considered uniquely human. In *The Second Machine Age* MIT’s Erik Brynjolfsson and Andrew McAfee—two thinkers at the forefront of their field—reveal the forces driving the reinvention of our lives and our economy. As the full impact of digital technologies is felt, we will realize immense bounty in the form of dazzling personal technology, advanced infrastructure, and near-boundless access to the cultural items that enrich our lives. Amid this bounty will also be wrenching change. Professions of all kinds—from lawyers to truck drivers—will be forever upended. Companies will be forced to transform or die. Recent economic indicators reflect this shift: fewer people are working, and wages are falling even as productivity and profits soar. Drawing on years of research and up-to-the-minute trends, Brynjolfsson and McAfee identify the best strategies for survival and offer a new path to prosperity. These include revamping education so that it prepares people for the next economy instead of the last one, designing new collaborations that pair brute processing power with human ingenuity, and embracing policies that make sense in a radically transformed landscape. A fundamentally optimistic book, *The Second Machine Age* alters how we think about issues of technological, societal, and economic progress.