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KEY=SCIENCE - SHANNON ORTIZ

PISA 2012 Results: Creative Problem Solving (Volume V) Students' Skills in Tackling Real-Life Problems

Students' Skills in Tackling Real-Life Problems

OECD Publishing This fifth volume of PISA 2012 results presents an assessment of student performance in problem solving, which measures students' capacity to respond to non-routine situations in order to achieve their potential as constructive and reflective citizens.

Sustaining Mobile Learning

Theory, research and practice

Routledge Mobile technologies are one of the fastest growing areas of technology in education. For learners, they offer an appealing opportunity to transcend teacher-defined knowledge and approaches by being able to access multiple, alternative sources of information anytime and anywhere. While the pace of engagement with and research into the educational applications of mobile technologies has picked up dramatically in the last decade, there is no consolidated view of how to sustain the practices or opportunities that are being explored. Sustainability is a complex but crucial issue in mobile learning as educational institutions are usually required to make substantial investments in mobile devices and associated technologies, time and training to initiate mobile learning programs. The complexity of sustainable mobile learning programs is further exacerbated by the fast pace of change of digital technologies, where with every change, new possibilities are opened up and investments required. In addition, educators are still attempting to reconcile institutions of formal education with informal mobile learning. The book addresses these issues, with a particular focus on: exploring the challenges surrounding the sustainability of mobile learning in K-12 and higher education investigating the importance of sustaining mobile learning for diverse populations of students globally discussing theoretical models for the sustainability of mobile learning providing the reader with strategies for sustaining mobile learning. Presenting new research alongside theoretical models and ideas for practice, the book will appeal to researchers, academics, and postgraduate students in the fields of education and mobile learning, as well as those working in teacher education.

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.

Science Education in East Asia

Pedagogical Innovations and Research-informed Practices

Springer This book presents innovations in teaching and learning science, novel approaches to science curriculum, cultural and contextual factors in promoting science education and improving the standard and achievement of students in East Asian countries. The authors in this book discuss education reform and science curriculum changes and promotion of science and STEM education, parental roles and involvement in children's education, teacher preparation and professional development and research in science education in the context of international benchmarking tests to measure the knowledge of mathematics and science such as the Trends in Mathematics and Science Study (TIMSS) and achievement in science, mathematics and reading like Programme for International Student Assessment (PISA). Among the high achieving countries, the performance of the students in East Asian countries such as Singapore, Taiwan, Korea, Japan, Hong Kong and China (Shanghai) are notable. This book investigates the reasons why students from East Asian countries consistently claim the top places in each and every cycle of those study. It brings together prominent science educators and researchers from East Asia to share their experience and findings, reflection and vision on emerging trends, pedagogical innovations and research-informed practices in science education in the region. It provides insights into effective educational strategies and development of science education to international readers.

Inquiry into the Singapore Science Classroom

Research and Practices

Springer This book offers an insight into the research and practices of science teaching and learning in the Singapore classroom, with particular attention paid to how they map on to science as inquiry. It provides a spectrum of Singapore's science educational practices through all levels of its education system, detailing both successes and shortcomings. The book features a collection of research and discourse by science educators in Singapore, organized around four themes that are essential components of approaching science as inquiry: teachers' ideas and their practices, opportunities and constraints from a systemic level, students' competencies and readiness to learn through inquiry and the need for greater awareness of the role of informal learning avenues in science education. In addition, the discourse within each theme is enriched by commentary from a leading international academic, which helps to consolidate ideas as well as position the issues within a wider theoretical and international context. Overall, the papers set out important contexts for readers to understand the current state of science education in Singapore. They also highlight strengths and gaps in practices of science as inquiry as well as provide suggestions about how the system can be improved. These research findings are therefore helpful as they provide honest and evidence-based feedback as well as tangible and doable ideas that policy makers, teachers, students and school administrators can adopt, adapt and enhance.

Teaching Chemistry Around the World

Waxmann Verlag As teachers we often tend to expect other countries to teach chemistry in much the same way as we do, but educational systems differ widely. At Bielefeld University we started a project to analyse the approach to chemical education in different countries from all over the world: Teaching Chemistry around the World. 25 countries have participated in the project. The resulting country studies are presented in this book. This book may be seen as a contribution to make the structure of chemistry teaching in numerous countries more transparent and to facilitate communication between these countries. Especially in the case of the school subject chemistry, which is very unpopular on the one hand and occupies an exceptional position on the other hand - due to its relevance to jobs and everyday life and most notably due to its importance for innovation capacity and problem solving - we have to learn from each others' educational systems.

Science Education Research and Practice in Asia

Challenges and Opportunities

Springer This book discusses the scope of science education research and practice in Asia. It is divided into five sections: the first consists of nine chapters providing overviews of science education in Asia (China, Lebanon, Macau, Malaysia, Mongolia, Oman, Singapore, Taiwan, and Thailand). The second section offers chapters on content analysis of research articles, while the third includes three chapters on assessment and curriculum. The fourth section includes four chapters on innovative technology in science education; and the fifth section consists of four chapters on professional development, and informal learning. Each section also has additional chapters providing specific comments on the content. This collection of works provides readers with a starting point to better understand the current state of science education in Asia.

Creating Holistic Technology- Enhanced Learning Experiences

Tales from a Future School in Singapore

Springer Science & Business Media **Creating Holistic Technology-Enhanced Learning Experiences: Tales of a Future School in Singapore** Editors: Lee Yong TAY & Cher Ping LIM The global level of economic, ecological, social, political and cultural integration across nation states and the rapid advancement of technology have brought about transformations that are part of globalisation. Our students are expected to be agents of change rather than passive observers of world events; and at the same time, to live together in an increasingly diverse and complex society and to reflect on and interpret fast changing information. In such a new world order, the holistic development of our students, namely in the cognitive, aesthetics, physical, social and moral, leadership and global domains, is pivotal. This edited book provides descriptive and interpretive accounts of how an elementary school in the FutureSchools@Singapore programme creates holistic technology-enhanced learning experiences for its students at the classroom and school levels. By documenting these accounts and linking them to student learning outcomes, the school will lead the way in providing possible models for the seamless and pervasive integration of information and communication technologies (ICT) into the curriculum for the holistic development of our students.

Educational content up close

examining the learning dimensions of Education for Sustainable Development and Global Citizenship Education

UNESCO Publishing

STEM in the Technopolis: The Power of STEM Education in Regional Technology Policy

Springer Nature This book addresses how forward-thinking local communities are integrating pre-college STEM education, STEM pedagogy, industry clusters, college programs, and local, state and national policies to improve educational experiences, drive local development, gain competitive advantage for the communities, and lead students to rewarding careers. This book consists of three sections: foundational principles, city/regional case studies from across the globe, and state and national context. The authors explore the hypothesis that when pre-college STEM education is integrated with city and regional development, regions can drive a virtuous cycle of education, economic development, and quality of life. Why should pre-college STEM education be included in regional technology policy? When local leaders talk about regional policy, they usually talk about how government, universities and industry should work together. This relationship is important, but what about the hundreds of millions of pre-college students, taught by tens of millions of teachers, supported by hundreds of thousands of volunteers, who deliver STEM education around the world? Leaders in the communities featured in STEM in the Technopolis have recognized the need to prepare students at an early age, and the power of real-world connections in the process. The authors advocate for this approach to be expanded. They describe how STEM pedagogy, priority industry clusters, cross-sector collaboration, and the local incarnations of global development challenges can be made to work together for the good of all citizens in local communities. This book will be of interest to government policymakers, school administrators, industry executives, and non-profit executives. The book will be useful as a reference to teachers, professors, industry professional volunteers, non-profit staff, and program leaders who are developing, running, or teaching in STEM programs or working to improve quality of life in their communities.

Science Education in Context

An International Examination of the Influence of Context on Science Curricula Development and Implementation

BRILL This book presents an international perspective of the influence of educational context on science education. The focus is on the interactions between curriculum development and implementation, particularly in non-Western and non-English-speaking contexts (i.e., outside the UK, USA, Australia, NZ, etc.).

Centering Whole-Child Development in Global Education Reform

International Perspectives on Agendas for Educational Equity and Quality

Taylor & Francis This volume offers critical analysis of national school reform policies intended to align with global agendas to promote educational quality and equity. By uniquely foregrounding the need for education reform to nurture child well-being alongside traditional measures of academic achievement, the book identifies common challenges across the Global North and South and extends insights provided by international student assessment data. Chapters offer a close analysis of reform practices in countries in Africa, Europe, Asia, and the Americas to consider cultural, social, political, and functional aspects which drive or inhibit the success of reform initiatives. Providing excellent insights into holistic education for children and youth, this book highlights lessons to support global efforts in providing high-quality, equitable education for the whole child. Developing international knowledge and supplementing international data, this volume will be of interest to students, scholars, and researchers with an interest in education policy, as well as comparative and international education.

Education in Japan

A Comprehensive Analysis of Education Reforms and Practices

Springer This book illustrates the nature of Japan's education system and identifies its strengths and weaknesses, as well as the socioeconomic environment surrounding education in contemporary Japanese society. It describes the basic institutional structure of each educational stage, in an overview of today's school education in Japan, while also analyzing the current implementation status of important policies and the progress of reform at each stage. The book also examines the status of and problems with various issues that are considered essential to education in Japan today. These include teachers, lesson studies, school and community, educational disparities, education and jobs, multiculturalism, university reforms, internationalization of education and English-language education, education for sustainable development, and others, covering a diverse range of fields. The book is unique in its attempt to comprehensively understand and analyze the educational field in Japan by drawing on the expertise of various academic disciplines.

Transforming Teachers' Work Globally

In Search of a Better Way for Schools and Their Communities

Springer Science & Business Media As societies change, so do the needs of students in their education systems. This volume argues that the core professional responsibility of today's teacher is to create learning environments in which teaching and learning are linked to real-life situations.

Understanding and Teaching Primary Geography

SAGE This book outlines how good teaching of primary geography can extend children's world awareness and help them make connections between their environmental and geographical experiences. Chapters offer guidance on important learning and teaching issues as well as the use and creation of resources from the school environment to the global

context. It covers all the key topics in primary geography including: understanding places physical and human geography environmental sustainability learning outside the classroom global issues citizenship and social justice. Summaries, classroom examples and practical and reflective tasks are included throughout to foster understanding and support the effective teaching of primary geography.

Quality Teaching in Primary Science Education

Cross-cultural Perspectives

Springer This edited volume explores how primary school teachers create rich opportunities for science learning, higher order thinking and reasoning, and how the teaching of science in Australia, Germany and Taiwan is culturally framed. It draws from the international and cross-cultural science education study EQUALPRIME: Exploring quality primary education in different cultures: A cross-national study of teaching and learning in primary science classrooms. Video cases of Year 4 science teaching were gathered by research teams based at Edith Cowan University, Deakin University, the Freie Universität Berlin, the National Taiwan Normal University and the National Taipei University of Education. Meetings of these research teams over a five year period at which data were shared, analysed and interpreted have revealed significant new insights into the social and cultural framing of primary science teaching, the complexities of conducting cross-cultural video-based research studies, and the strategies and semiotic resources employed by teachers to engage students in reasoning and meaning making. The book's purpose is to disseminate the new insights into quality science teaching and how it is framed in different cultures; methodological advancements in the field of video-based classroom research in cross-cultural settings; and, implications for practice, teacher education and research. "The chapters (of this book) address issues of contemporary relevance and theoretical significance: embodiment, discursive moves, the social unit of learning and instruction, inquiry, and reasoning through representations. Through all of these, the EQUALPRIME team manages to connect the multiple cultural perspectives that characterise this research study. The 'meta-reflection' chapters offer a different form of connection, linking cultural and theoretical perspectives on reasoning, quality teaching and video-based research methodologies. The final two chapters offer connective links to implications for practice in teacher education and in cross-cultural comparative research into teaching and learning. These multiple and extensive connections constitute one of the books most significant accomplishments. The EQUALPRIME project, as reported in this book, provides an important empirical base that must be considered by any system seeking to promote sophisticated science learning and instructional practices in primary school classrooms. By exploring the classroom realisation of aspirational science pedagogies, the EQUALPRIME project also speaks to those involved in teacher education and to teachers. I commend this book to the reader. It offers important insights, together with a model of effective, collegial, collaborative inter-cultural research. It will help us to move forward in important ways". Professor David Clarke, Melbourne University

ICT in Education in Global Context

Emerging Trends Report 2013-2014

Springer This book presents the current advances and emerging trends in digital technologies for learning and education through a number of invited chapters on key research areas. It addresses information and communications technology (ICT) in a global context, reporting on emerging trends and issues in four areas - basic education, technical and vocational education, distance and continuing education and higher education -, as these four areas represent the primary contexts in which ICT is used to support learning and instruction. This book provides a brief overview of the potential benefits of ICT used in education and some of the best approaches in which different ICTs have been used in education thus far in a global context. It also presents the expertise and the most current research and practices of recognized international educators and researchers in the field of ICT in education. Third, this volume is both informative and transformative in its coverage of the conceptual and practical impact of technology on current educational practices, making it a valuable resource for policymakers, educators and educational researchers around the globe.

The Funding of School Education

Connecting Resources and Learning

OECD This report on the funding of school education constitutes the first in a series of thematic comparative reports bringing together findings from the OECD School Resources Review. School systems have limited financial resources with which to pursue their objectives and the design of school funding policies plays a key role in ensuring that resources are directed to where they can make the most difference. As OECD school systems have become more complex and characterised by multi-level governance, a growing set of actors are increasingly involved in financial decision-making. This requires designing funding allocation models that are aligned to a school system's governance structures, linking budget planning procedures at different levels to shared educational goals and evaluating the use of school funding to hold decision makers accountable and ensure that resources are used effectively and equitably. This report was co-funded by the European Commission. .

Common Core Mathematics Standards and Implementing Digital Technologies

IGI Global Standards in the American education system are traditionally handled on a state-by-state basis, which can differ significantly from one region of the country to the next. Recently, initiatives proposed at the federal level have attempted to bridge this gap. Common Core Mathematics Standards and Implementing Digital Technologies provides a critical discussion of educational standards in mathematics and how communication technologies can support the implementation of common practices across state lines. Leaders in the fields of mathematics education and educational technology will find an examination of the Common Core State Standards in Mathematics through concrete examples, current research, and best practices for teaching all students regardless of grade level or regional location. This book is part of the Advances in Educational Technologies and Instructional Design series collection.

Equity and Quality in Education Supporting Disadvantaged Students and Schools

Supporting Disadvantaged Students and Schools

OECD Publishing Across OECD countries, almost one in every five students does not reach a basic minimum level of skills. This book presents a series of policy recommendations for education systems to help all children succeed.

Mathematics Education in Singapore

Springer This book provides a one-stop resource for mathematics educators, policy makers and all who are interested in learning more about the why, what and how of mathematics education in Singapore. The content is organized according to three significant and closely interrelated components: the Singapore mathematics curriculum, mathematics teacher education and professional development, and learners in Singapore mathematics classrooms. Written by leading researchers with an intimate understanding of Singapore mathematics education, this up-to-date book reports the latest trends in Singapore mathematics classrooms, including mathematical modelling and problem solving in the real-world context.

Towards Deep Understanding of Elementary School Mathematics: A Brief Companion for Teacher Educators and Others

World Scientific

Routledge International Handbook of Schools and Schooling in Asia

Routledge This comprehensive handbook is the ultimate reference work, providing authoritative and international overviews of all aspects of schools and schooling in Asia. Split into 19 sections it covers curriculum, learning and assessment, private supplementary tutoring, special education, gender issues, ethnic minority education and LGBTIQ students in Asian schools. The volume displays the current state of the scholarship for schools and schooling in Asia including emerging, controversial and cutting-edge contributions using a thematic approach. The content offers a broad sweep of the region with a focus on theoretical, cultural and political issues as well as identifying educational issues and priorities, such as curriculum, assessment, teacher education, school leadership, etc., all of which impact students and learning in multiple ways. The Routledge International Handbook of Schools and Schooling in Asia brings together experts in each area to contribute their knowledge, providing a multidimensional and rich view of the issues confronting the region's school and education systems.

Inquiry and the National Science Education Standards A Guide for Teaching and Learning

National Academies Press Humans, especially children, are naturally curious. Yet, people often balk at the thought of learning science--the "eyes glazed over" syndrome. Teachers may find teaching science a major challenge in an era when science ranges from the hardly imaginable quark to the distant, blazing quasar. Inquiry and the National Science Education Standards is the book that educators have been waiting for--a practical guide to teaching inquiry and teaching through inquiry, as recommended by the National Science Education Standards. This will be an important resource for educators who must help school boards, parents, and teachers understand "why we can't teach the way we used to." "Inquiry" refers to the diverse ways in which scientists study the natural world and in which students grasp science knowledge and the methods by which that knowledge is produced. This book explains and illustrates how inquiry helps students learn science content, master how to do science, and understand the nature of science. This book explores the dimensions of teaching and learning science as inquiry for K-12 students across a range of science topics. Detailed examples help clarify when teachers should use the inquiry-based approach and how much structure, guidance, and coaching they should provide. The book dispels myths that may have discouraged educators from the inquiry-based approach and illuminates the subtle interplay between concepts, processes, and science as it is experienced in the classroom. Inquiry and the National Science Education Standards shows how to bring the standards to life, with features such as classroom vignettes exploring different kinds of inquiries for elementary, middle, and high school and Frequently Asked Questions for teachers, responding to common concerns such as obtaining teaching supplies. Turning to assessment, the committee discusses why assessment is important, looks at existing schemes and formats, and addresses how to involve students in assessing their own learning achievements. In addition, this book discusses administrative assistance, communication with parents, appropriate teacher evaluation, and other avenues to promoting and supporting this new teaching paradigm.

Education to Build Back Better

What Can We Learn from Education Reform for a Post-pandemic World

Springer Nature This open access book examines the implications of the COVID-19 Pandemic for education systems and argues that major education reforms will be necessary, particularly in the Global South, to address the learning loss caused by the pandemic. To inform those reforms, knowledge about the implementation reforms in the Global South is necessary, and such knowledge is seriously lacking as the existing literature on the implementation of educational change focused principally in reforms in countries in the Global North. This book contributes to address this gap by examining five major education reforms in India, Egypt, Taiwan, Vietnam, and Senegal, and by presenting two novel approaches to climate change education using a bottom up strategy of reform. The chapters examine the implementation process drawing on a theoretical model of educational change by Reimers (published in Educating Students to Improve the World by Springer in 2020). The book concludes discussing the implementation of such reforms as an evolutionary and learning process, characterized by four dimensions: the goals of the reform, the drivers of the reform, the reform strategy, and the mindsets about educational change which undergird the implementation strategy.

PISA Résultats du PISA 2012 : Trouver des solutions créatives (Volume V)

Compétences des élèves en résolution de problèmes de la vie réelle

Compétences des élèves en résolution de problèmes de la vie réelle

OECD Publishing Le Programme international de l'OCDE pour le suivi des acquis des élèves (PISA) analyse non seulement les savoirs des élèves en mathématiques, en compréhension de l'écrit et en sciences, mais également leur savoir-faire.

CeDEM15

Conference for E-Democracy and Open Government

MV-Verlag

Naturwissenschaftlicher Unterricht im internationalen Vergleich

LIT Verlag Münster

A review of school feeding programmes in the Caribbean Community

A driver for food and nutrition security

Food & Agriculture Org. This review provides a snapshot of the state-of-art of School Feeding Programmes in 14 of the 15 CARICOM Member States. It provides an overview of the different models of school feeding programmes that currently exist in the Caribbean, challenges faced and recommendations for improvement. Among the aspects evaluated include: the governance structure, nutritional quality of meal served, linkages with small farmers for the procurement of products used in the meals, involvement of children in school gardens related activities, etc. The document includes a case study for each of the participating countries (namely Antigua and Barbuda, Bahamas, Barbados, Belize, Dominica, Grenada, Guyana, Haiti, Jamaica, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname and Trinidad and Tobago). For each of these countries, an Annual Net Benefit Analysis was conducted, using information collected in 2017. The aim is that the document can provide preliminary information and recommendations that can be relevant for governments, public organizations, donors, opinion leaders, private sectors, and others toward strengthening school feeding programmes in the Caribbean. It was developed with the support of the University of the West Indies and the Caribbean Agro-Economic Society under the leadership of Prof. Carlisle Pemberton and Dr. Hazel Paterson-Andrews.

Economic Outlook for Southeast Asia, China and India 2020 Rethinking Education for the Digital Era

Rethinking Education for the Digital Era

OECD Publishing The Economic Outlook for Southeast Asia, China and India is a bi-annual publication on regional economic growth, development and regional integration in Emerging Asia. It focuses on the economic conditions of Association of Southeast Asian Nations (ASEAN) member countries: Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, the Philippines, Singapore, Thailand and Viet Nam. It also addresses relevant economic issues in China and India to fully reflect economic developments in the region.

Sustainable Agriculture Reviews

Springer Science & Business Media Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel solutions are proposed based on integrated knowledge from sciences as diverse as agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy, philosophy and social sciences. Because actual society issues are now intertwined, global, and fast-developing, sustainable agriculture will bring solutions to build a safer world. This book series gathers review articles that analyze current agricultural issues and knowledge, then propose alternative solutions. It will therefore help all scientists, decision-makers, professors, farmers and politicians who wish to build a safe agriculture, energy and food system for future generations.

Leading Primary Mathematics

SAGE This book provides guidance and insight into 'what mathematics leadership looks like in practice' and shows readers how they can develop from a confident teacher into a curriculum subject leader. It does this through a careful blend of pedagogy and practical application, supported by a range of real-world case studies and opportunities to reflect critically on classroom practice. Key coverage includes: The planning and application that underpins subject leadership How international perspectives can influence leadership of mathematics How to develop fluency through problem solving and reasoning How to champion inclusive practice in mathematics Assessing children's understanding This is essential reading for anyone studying primary mathematics on initial teacher education courses, including undergraduate (BA Ed, BA with QTS) and postgraduate (PGCE, PGDE, School Direct and SCITT) routes, NQTs seeking to develop into curriculum leadership roles and those already leading mathematics in their school.

TIMSS 2015. Marcos de la evaluación

Ministerio de Educación

Teaching, Bearing the Torch

Introduction to Education Foundations, Third Edition

Waveland Press Teachers are torchbearers—leaders who impart knowledge, truth, or inspiration to others. Pamela Farris, joined by Patricia Rieman in the latest edition of this exceptional foundations text, clearly demonstrates how teachers bear the torch. The authors' well-researched approach provides both positive and negative aspects of education trends. Their generous use of examples shows how teaching and schooling fit into the broader context of U.S. society and how they match up with other societies throughout the world. Farris and Rieman's lively writing style instills teacher education candidates with a lucid understanding of such topics as philosophy and history of education, national trends, requirements of becoming a teacher, teachers' salaries, how schools are governed and funded, demographic changes and expectations for the future, differences in rural and urban schools, and use of technology. Detailed lists of a variety of websites provide additional resources. Anecdotes of professionals in the field—authentic-voice narratives with frank insights into real-world teaching experiences—punctuate the text. Boxed scenarios concentrate on important issues and educators, energize readers' interest, and stimulate proactive thinking. Other outstanding features are the book's affordability and versatility. Instructors can easily assign all or a portion of the chapters to fit course needs.

Teaching Primary Geography

Setting the Foundation

Springer Nature

Issues in Teaching and Learning of Education for Sustainability

Theory into Practice

Routledge In a fast-changing, globalising world, the teaching and implementation of a curriculum for Education for Sustainability (EFS) has been a challenge for many teachers. *Issues in Teaching and Learning of Education for Sustainability* highlights the issues and challenges educators and academics face in implementing EFS and gives examples of what an EFS curriculum may look like and how some institutions translate the theory into practice. Organised into three parts, the volume looks at: the who (EFS for whom), the what (EFS curriculum) and the how (translating from theory to practice). The concluding chapter provides ideas and directions on where the world can proceed regarding sustainability education and how it can help in the teaching and learning of sustainability. Considering social issues such as poverty, education, health, culture and the use of natural resources, this book proposes a different path towards Education for Sustainability. Providing concrete data on the realisation of sustainable development, *Issues in Teaching and Learning of Education for Sustainability* will be of interest to geographers, geography educators and professionals concerned with Education for Sustainability.

Rasch Measurement

Applications in Quantitative Educational Research

Springer Nature This book focuses on the use of the Rasch measurement model in validation studies and in analyzing the psychometric properties of a variety of test instruments, questionnaires, and scales in international contexts. It broadly examines the development and application of Rasch modeling, providing in-depth analyses of the properties of various scales used in the fields of education, and humanities and social sciences research. The book includes exemplary works on educational research and practices that highlight recent and innovative applications, as well as theoretical and practical aspects of Rasch modeling. Readers will find it helpful to understand the latest approaches to Rasch measurement in educational research, as well as practices for future studies and quantitative research. 'This book provides a diverse set of perspectives on Rasch models from scholars across the globe. The volume is both theoretical and applied. The first section of the book provides an overview of Rasch modeling and explains the theoretical and conceptual framework underlying the Rasch model. The remainder of the book highlights multiple applications of the Rasch model within educational assessment as well as several examples of how Rasch modeling can be used for validation studies. This volume showcases the wide variety of ways in which Rasch modeling can be applied to assessment data to provide insights into students' achievement and learning and to improve instruction.'-Betsy McCoach, University of Connecticut, USA. 'A well-written collection of articles. Grouped by the theoretical and applied aspects of Rasch measurement, each chapter in this edited volume makes notable contributions to knowledge and practice. Written by leading scholars in the field, these chapters were written in a clear, succinct, and assertive manner, providing readers with up-to-date information, analyses, and debates. This book should be found in the core collection of emerging researchers and established scholars in educational measurement.'-Timothy Teo, Murdoch University, Australia.

Mathematics Education

The Singapore Journey

World Scientific

Natural Resources Management: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global The perseveration of our natural environment has become a critical objective of environmental scientists, business owners, and citizens alike. Because we depend on natural resources to survive, uncovering methods for preserving and maintaining these resources has become a focal point to ensure a high quality of life for future generations. *Natural Resources Management: Concepts, Methodologies, Tools, and Applications* emphasizes the importance of land, soil, water, foliage, and wildlife conservation efforts and management. Focusing on sustainability solutions and methods for preserving the natural environment, this critical multi-volume research work is a comprehensive resource for environmental conservationists, policymakers, researchers, and graduate-level students interested in identifying key research in the field of natural resource preservation and management.

Innovations in Science Teacher Education in the Asia Pacific

Emerald Group Publishing The chapters in this book will focus on pre-service and in-service science teacher education, because both are equally important. With case studies for China, Japan, Korea and Taiwan topics include: Professional Development of Chemistry Teachers in the New Curriculum, Using Classroom Observation to Assist Teacher Professional Development and Science Teacher Education and Science as Inquiry: Promises and Dilemmas.