Kaye Stacey - Ross Turner Editors

Assessing Mathematical Literacy

The PISA Experience



Assessing Mathematical Literacy The Pisa Experience

JS Bruner

Assessing Mathematical Literacy The Pisa Experience:

Assessing Mathematical Literacy Kaye Stacey, Ross Turner, 2014-11-03 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 Beyond Shanghai and PISA Binyan Xu, Yan Zhu, Xiaoli Lu, 2021-05-07 This book seeks to illustrate the research on mathematics competencies and disposition in China according to the conceptual development and empirical investigation perspective Mathematics education in China has a distinguishing feature a focus of attention to mathematical competency Paradoxically there has not been an explicit refined and measurable evaluation system in place to assess mathematical competency in China While academic achievement surveys or evaluations are common these can only give an overall conclusion about mathematical thinking skills or problem solving abilities In response to this deficiency China is beginning to carry out national projects that emphasize defining both a conceptual framework on core competencies in school mathematics and developing a corresponding assessment framework Thus the main focus of this volume is the current investigations of different mathematics competencies and mathematical disposition of Chinese students with the aim of promoting interaction between domestic and international student performance assessment to provide a more comprehensive understanding of mathematics competencies and disposition in mainland China and to stimulate innovative new directions in research The primary audience of this volume is the large group of researchers interested in mathematics competencies mathematics teaching and learning in China or comparative studies or the relation of the three The book will also appeal to teaching trainers or instructors as well as be an appropriate resource for graduate courses or seminars at either the master s or doctoral level Singapore Math and Science Education Innovation Oon Seng Tan, Ee Ling Low, Eng Guan Tay, Yaw Kai Yan, 2021-08-04 This edited volume explores key areas of interests in Singapore math and science education including issues on teacher education pedagogy curriculum assessment

STEM It presents to policymakers and educators a clear picture of the education scene in Singapore and insights into the role of math and science education in helping the country excel beyond international studies such as PISA the pedagogical and curricula advancements in math and science learning and the research and practices that give Singaporean students the competitive edge in facing the uncertain and challenging landscape of the future **International Perspectives on Teaching and Learning for Mathematical Literacy**, 2024-10-02 Mathematics plays an important role in today s world and is used in daily life more than is often appreciated Mathematical literacy denotes the competence to deal with the mathematical issues of life in modern society. The underlying purpose of this book is to support the development of rich understandings and practices of how an education for mathematical literacy can be realised. The collected works emerging from several educational systems offer a fresh perspective on mathematical literacy and the chapters include practical examples that teachers pre service teachers and teacher educators might adapt to their own needs **Theory and Practice** in Mathematics and Natural Sciences Canan Demir, 2021-09-15 Theory and Practice in Mathematics and Natural Sciences Mathematics for Life and Work A Comparative Perspective on Mathematics to Inform Upper Secondary Reform in England OECD, 2024-11-05 Engagement and performance in mathematics at the upper secondary level have been the concern of successive governments in England This report was commissioned as part of the country's policy reflections for transforming how maths is viewed and experienced in England The report explores outcomes such as the share of students studying maths and performance across countries and how education systems internationally deliver mathematics in upper secondary It also examines factors shaping maths education including the expectations set by curricula student pathways cultural perceptions and the needs of the labour market and higher education **Learning and Teaching for** Mathematical Literacy Hugh Burkhardt, Daniel Pead, Kaye Stacey, 2024-02-19 Typically most people don t realize when and how they can use the mathematics they were taught in high school yet many of the mathematical ideas and skills can be a powerful tool for understanding how the world works Learning and Teaching for Mathematical Literacy addresses this situation offering practical strategies for developing a broader vision of mathematical literacy in the classroom and recognising the importance of maintaining these skills into adult life Linked to the material explored throughout this book classroom activities and lesson materials are freely available for use via the QR codes included in each chapter Filled with case studies and classroom activities chapters tackle several topics Describing a framework for a broader vision of mathematical literacy what is it and why is it important Teaching mathematical literacy in the classroom Applying mathematical literacy to real life scenarios My dad is buying a new dishwasher Should he buy the extended warranty on offer My phone works fine but I ve been offered an upgrade How should I decide whether to take it The role of technology in teaching mathematical literacy Designing mathematical measures for real word quantities Firmly grounded by practical

teaching practices applied learning ecology of learning talent grooming culture of science and math vocational education and

applications for the classroom and beyond this is an essential handbook for any teacher teaching assistant or mathematics subject lead who wishes to develop their students mathematical literacy skills This is also an ideal resource for those delivering or enrolled in teacher preparation courses **E-Pedagogy for the Digital Age** Dr. P. C. Nagasubramani, Adult learners have more options for enrolling in postsecondary education than ever before and they are able to use their learning style preference in deciding which program best meets their needs For some of these students those programs are fully online and for others there is minimal use of technology As technology grows and become more integrated into individual lives the unique learning styles and preferences of adults need to learn to be incorporated into instructional design Drawing on a regional sample of US colleges 545 adult learners in a graduate programs were surveyed about how to effectively build community in their online classes Results indicated some agreement with these instructional tools Mature adult learners however were found to have stronger agreement with strategies that included work outside of the formal online class These results suggest perhaps a greater comfort for adults in working in spaces where there is less likelihood of being judged or graded and that they might value relational work with other students in different ways than younger adults Reflections on the Netherlands Didactics of Mathematics Marja van den Heuvel-Panhuizen, 2019-08-13 This open access book inspired by the ICME 13 Thematic Afternoon on European Didactic Traditions takes readers on a journey with mathematics education researchers developers and educators in eighteen countries who reflect on their experiences with Realistic Mathematics Education RME the domain specific instruction theory for mathematics education developed in the Netherlands since the late 1960s Authors from outside the Netherlands discuss what aspects of RME appeal to them their criticisms of RME and their past and current RME based projects It is clear that a particular approach to mathematics education cannot simply be transplanted to another country As such in eighteen chapters the authors describe how they have adapted RME to their individual circumstances and view on mathematics education and tell their personal stories about how RME has influenced their thinking on mathematics education **Mathematics Curriculum Reforms Around the World Yoshinori** Shimizu, Renuka Vithal, 2023-06-28 This Open Access volume by the International Commission on Mathematical Instruction ICMI is an outcome of the ICMI Study 24 and gives a status quo of school mathematics reform around the world and what we can learn from this movement Each theme and section of the book offers descriptions and analyses of multiple case studies in different countries and contexts along with opportunities to compare contrast and learn from these diverse experiences The volume provides a synthesis and meta analysis of the different historical geographical and global aspects of school mathematics reforms and explores in which way curricula are elaborated proposed changed and reorganized It offers a more informed and comprehensive analysis of the roles of different actors and of the many aspects influencing and shaping mathematics curriculum reforms that are taking or have taken place It also explores the possibilities and means to tackle a curricular reform in the current scenario we live in and how to unfold future developments This book will be of interest to

practitioners and scholars with an interest in school mathematics curriculum reforms It will also be a useful resource to those involved in school mathematics curriculum reform initiatives by providing current information about the curriculum changes that are taking place in respect of content teacher education educational materials and a range of implementation challenges across diverse contexts

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