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The weather was sunny, the teachers excited and the workshops and presentations inspired. 1200 maths teachers from around the country flocked to the Mbombela campus of the Tshwane University of Technology in Nelspruit to be inspired and find new and exciting ways to teach mathematics in their classrooms.

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The Challenge is organised by the South African Mathematics Foundation (SAMF) in cooperation with the Association for Mathematics Education of South Africa (AMESA) and the South African Mathematical Society (SAMS). More about the Challenge Download entry form Sample question papers.

SOUTH AFRICAN MATHEMATICS CHALLENGE - AMESA

AMESA is the voice of Mathematics Education in South Africa, representing the interests of the discipline and its members at national and provincial level. All who have an interest in the teaching and learning of Mathematics at all levels should belong to this dynamic Association.

AMESA - Mathematics Education

There are two papers: Grades 4-5 learners write the Junior paper and Grades 6-7 learners write the Senior paper. Learners have 90 minutes to solve 15 challenging mathematical problems. An important aim with the Final Round is for learners to interact with others in the context of mathematics – mathematics is a social activity and we communicate with and about mathematics!

SAMF. South African Mathematics Challenge

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SAMF as NPO was established in 2004 and serves as a national office for mathematics. The office is powered by a superb team of professionals who work co-operatively with government, schools and other stakeholders in order to improve maths education in South Africa.

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The South African Mathematics Olympiad is the biggest Olympiad in the country. Almost 100 000 learners participated in the 2017 Olympiad. The first round is written in March. The junior division consists of separate papers for grades 8 and 9 and the senior division of one paper for grades 10 to 12. Each paper consists of 20 questions with multiple-

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This book seeks to actively involve the reader in the heuristic processes of conjecturing, discovering, formulating, classifying, defining, refuting, proving, etc. within the context of Euclidean geometry. The book deals with many interesting and beautiful geometric results, which have only been discovered during the past 300 years such as the Euler line, the theorems of Ceva, Napoleon, Morley, Miquel, Varignon, etc. Extensive attention is also given to the classification of the quadrilaterals from the symmetry of a side-angle duality. Many examples lend themselves excellently for exploration on computer with dynamic geometry programs such as Sketchpad. The book is addressed primarily to university or college lecturers involved in the under-graduate or in-service training of high school mathematics teachers, but may also interest teachers who are looking for enrichment material, and gifted high school mathematics pupils.

THIS BOOK IS AVAILABLE AS OPEN ACCESS BOOK ON SPRINGERLINK One of the most significant tasks facing mathematics educators is to understand the role of mathematical reasoning and proving in mathematics teaching, so that its presence in instruction can be enhanced. This challenge has been given even greater importance by the assignment to proof of a more prominent place in the mathematics curriculum at all levels. Along with this renewed emphasis, there has been an upsurge in research on the teaching and learning of proof at all grade levels, leading to a re-examination of the role of proof in the curriculum and of its relation to other forms of explanation, illustration and justification. This book, resulting from the 19th ICMI Study, brings together a variety of viewpoints on issues such as: The potential role of reasoning and proof in deepening mathematical understanding in the classroom as it does in mathematical practice. The developmental nature of mathematical reasoning and proof in teaching and learning from the earliest grades. The development of suitable curriculum materials and teacher education programs to support the teaching of proof and proving. The book considers proof and proving as complex but foundational in mathematics. Through the systematic examination of recent research this volume offers new ideas aimed at enhancing the place of proof and proving in our classrooms.

This book systematically explores and reflects on a variety of issues related to collaborative mathematics teacher education practice and research – such as classroom coaching, mentoring or co-learning agreements - highlighting the evolution and implications of collaborative enterprises in different cultural settings. It is relevant to educational researchers, research students and practitioners.

What is important for citizens to know and be able to do? The OECD Programme for International Student Assessment (PISA) seeks to answer that question through the most comprehensive and rigorous international assessment of student knowledge and skills.

This comprehensive volume provides teachers, researchers and education professionals with cutting edge knowledge developed in the last decades by the educational, behavioural and neurosciences, integrating cognitive, developmental and socioeconomic approaches to deal with the problems children face in learning mathematics. The neurocognitive mechanisms and the cognitive processes underlying acquisition of arithmetic abilities and their significance for education have been the subject of intense research in the last few decades, but the most part of this research has been conducted in non-applied settings and there's still a deep discrepancy between the level of scientific knowledge and its implementation into actual educational settings. Now it's time to bring the results from the laboratory to the classroom. Apart from bringing the theoretical discussions to educational settings, the volume presents a wide range of methods for early detection of children with risks in mathematics learning and strategies to develop effective interventions based on innovative cognitive test instruments. It also provides insights to translate research knowledge into public policies in order to address socioeconomic issues. And it does so from an international perspective, dedicating a whole section to the cultural diversity of mathematics learning difficulties in different parts of the world. All of this makes the International Handbook of Mathematical Learning Difficulties an essential tool for those involved in the daily struggle to prepare the future generations to succeed in the global knowledge society.

Reflecting on the theoretical and ideological work that has contributed to the growth of mathematics education research in South Africa, this study provides a historical analysis of forces that have changed and shaped mathematics curricula over the years. The themes researched and explored include radical pedagogy, progressive classroom practices, ethnomathematics, and South African mathematics education research within both its local and international contexts.

In the four decades since Imre Lakatos declared mathematics a "quasi-empirical science,," increasing attention has been paid to the process of proof and argumentation in the field -- a development paralleled by the rise of computer technology and the mounting interest in the logical underpinnings of mathematics. Explanantion and Proof in Mathematics assembles perspectives from mathematics education and from the philosophy and history of mathematics to strengthen mutual awareness and share recent findings and advances in their interrelated fields. With examples ranging from the geometrists of the 17th century and ancient Chinese algorithms to cognitive psychology and current educational practice, contributors explore the role of refutation in generating proofs, the varied links between experiment and deduction, the use of diagrammatic thinking in addition to pure logic, and the uses of proof in mathematics education (including a critique of "authoritative" versus "authoritarian" teaching styles). A sampling of the coverage: The conjoint origins of proof and theoretical physics in ancient Greece. Proof as bearers of mathematical knowledge. Bridging knowing and proving in mathematical reasoning. The role of mathematics in long-term cognitive development of reasoning. Proof as experiment in the work of Wittgenstein. Relationships between mathematical proof, problem-solving, and explanation. Explanation and Proof in Mathematics is certain to attract a wide range of readers, including mathematicians, mathematics education professionals, researchers, students, and philosophers and historians of mathematics.

Developing Science, Mathematics and ICT (SMICT) in Secondary Education is based on country studies from ten Sub-Saharan African countries: Botswana, Burkina Faso, Ghana, Namibia, Nigeria, Senegal, South Africa, Uganda, Tanzania and Zimbabwe, and a literature review. It reveals a number of huge challenges in SMICT education in sub-Saharan Africa: poorly-resourced schools; large classes; a curriculum hardly relevant to the daily lives of students; a lack of qualified teachers; and inadequate teacher education programs. Through examining country case studies, this paper discusses the lessons for improvement of SMICT in secondary education in Africa.