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An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.

Teaching Young  
Children Mathematics

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Exam Papers  
provides a comprehensive overview of mathematics instruction in the early childhood classroom. Taking into account family differences, language barriers, and the presence of special needs students in many classrooms throughout the U.S., this textbook situates best practices

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for mathematics instruction within the larger frameworks of federal and state standards as well as contemporary understandings of child development. Key topics covered include: developmental information of conceptual understanding in mathematics from birth

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through 3rd grade, use of national and state standards in math, including the new Common Core State Standards, information for adapting ideas to meet special needs and English Language Learners, literacy connections in each chapter, 'real-world' connections to the content, and

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information for family connections to the content.

The book presents the Invited Lectures given at 13th International Congress on Mathematical Education (ICME-13). ICME-13 took place from 24th- 31st July 2016 at the University of Hamburg in Hamburg (Germany).

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The congress was hosted by the Society of Didactics of Mathematics (Gesellschaft für Didaktik der Mathematik - GDM) and took place under the auspices of the International Commission on Mathematical Instruction (ICMI).  
ICME-13 – the biggest

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ICME so far - brought together about 3500 mathematics educators from 105 countries, additionally 250 teachers from German speaking countries met for specific activities. The scholars came together to share their work on the improvement of mathematics education at all educational

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levels.. The papers present the work of prominent mathematics educators from all over the globe and give insight into the current discussion in mathematics education. The Invited Lectures cover a wide spectrum of topics, themes and issues and aim to give direction to future research towards



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educational improvement in the teaching and learning of mathematics education. This book is of particular interest to researchers, teachers and curriculum developers in mathematics education. The Impossible Dream? Excel 2013: The Missing Manual The Rules of Unified

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English Braille  
Transitions and  
transactions

Invited Lectures from  
the 13th International  
Congress on  
Mathematical  
Education

Proceedings of the 13th  
International Congress  
on Mathematical  
Education

\*THIS BOOK WILL  
SOON BECOME

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AVAILABLE AS  
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BOOK\* This book examines multiple facets of language diversity and mathematics education. It features renowned authors from around the world and explores the learning and teaching of

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mathematics in contexts that include multilingual classrooms, indigenous education, teacher education, blind and deaf learners, new media and tertiary education. Each chapter draws on research from two or more countries to

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illustrate important  
research findings,  
theoretical  
developments and  
practical strategies.  
This open access  
book examines  
multiple facets of  
language diversity  
Common Core  
Connections: Math is  
the perfect tool for  
helping second grade

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students master  
Common Core math  
skills. The Common  
Core Standards for  
Math in second  
grade focus on four  
main areas:  
extending  
understanding of  
place value, building  
fluency with addition  
and subtraction,  
using standard units

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of measure, and shapes. This resource provides focused practice pages for targeting and reinforcing these skills and other second grade math skills while helping students connect comprehension with knowledge and application.

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Connecting the standards to content has never been easier with the Common Core Connections series for Math. The Common Core Connections series provides teachers with a skill assessment and analysis to help determine



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individualized  
instruction needs.

Focused,  
comprehensive  
practice pages and  
self-assessments  
guide students to  
reflection and  
exploration for  
deeper learning!  
Standards  
correlations are  
printed on each page

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to make planning and documentation simple. This series is an ideal resource for differentiation and remediation. Each 96-page book includes a skill assessment, assessment analysis, Common Core State Standards Alignment Matrix, and answer

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key.

\*THIS BOOK IS  
AVAILABLE AS  
OPEN ACCESS  
BOOK ON  
SPRINGERLINK\*

This open access  
book is the product  
of ICMI Study 22  
Task Design in  
Mathematics  
Education. The study  
offers a state-of-the-

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art summary of relevant research and goes beyond that to develop new insights and new areas of knowledge and study about task design. The authors represent a wide range of countries and cultures and are leading researchers, teachers and

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designers. In particular, the authors develop explicit understandings of the opportunities and difficulties involved in designing and implementing tasks and of the interfaces between the teaching, researching and

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designing roles – recognising that these might be undertaken by the same person or by completely separate teams. Tasks generate the activity through which learners meet mathematical concepts, ideas, strategies and learn

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to use and develop mathematical thinking and modes of enquiry. Teaching includes the selection, modification, design, sequencing, installation, observation and evaluation of tasks. The book illustrates how task design is

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core to effective teaching, whether the task is a complex, extended, investigation or a small part of a lesson; whether it is part of a curriculum system, such as a textbook, or promotes free standing activity; whether the task



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comes from  
published source or  
is devised by the  
teacher or the  
student.

an ICMI study 22  
The School Reform  
Landscape  
A Path Forward  
An Introduction to  
Statistical Learning  
MATH IN  
SOCIETY

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Exam Papers  
Study and Master  
Mathematical  
Literacy Grade 12  
CAPS Learner's  
Book

*Results from  
national and  
international  
assessments  
indicate that  
school children  
in the United  
States are not*

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*learning mathematics well enough. Many students cannot correctly apply computational algorithms to solve problems. Their understanding and use of decimals and fractions are especially weak.*

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Indeed, helping  
all children  
succeed in  
mathematics is  
an imperative  
national goal.  
However, for our  
youth to  
succeed, we need  
to change how  
weâ€™re teaching  
this discipline.  
Helping Children  
Learn

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*Mathematics provides comprehensive and reliable information that will guide efforts to improve school mathematics from pre--kindergarten through eighth grade. The authors explain the five strands*

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*of mathematical  
proficiency and  
discuss the  
major changes  
that need to be  
made in  
mathematics  
instruction,  
instructional  
materials,  
assessments,  
teacher  
education, and  
the broader*

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educational  
system and  
Exam Papers

*answers some of  
the frequently  
asked questions  
when it comes to  
mathematics  
instruction. The  
book concludes  
by providing  
recommended  
actions for  
parents and  
caregivers,*

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*teachers,  
administrators,  
and policy  
makers,  
stressing the  
importance that  
everyone work  
together to  
ensure a  
mathematically  
literate  
society.*

*This book is  
open access*



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under a CC BY  
4.0 license. The  
book presents  
the Proceedings  
of the 13th  
International  
Congress on  
Mathematical  
Education  
(ICME-13) and is  
based on the  
presentations  
given at the  
13th

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*International  
Congress on*

*Mathematical  
Education*

*(ICME-13) .*

*ICME-13 took  
place from 24th-  
31st July 2016  
at the*

*University of  
Hamburg in  
Hamburg*

*(Germany) . The  
congress was*

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hosted by the  
Society of  
Didactics of  
Mathematics  
(Gesellschaft  
für Didaktik der  
Mathematik -  
GDM) and took  
place under the  
auspices of the  
International  
Commission on  
Mathematical  
Instruction

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(ICMI). ICME-13  
brought together  
about 3.500  
mathematics  
educators from  
105 countries,  
additionally 250  
teachers from  
German speaking  
countries met  
for specific  
activities.  
Directly before  
the congress

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*activities were offered for 450 Early Career Researchers. The proceedings give a comprehensive overview on the current state-of-the-art of the discussions on mathematics education and display the breadth and*

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*deepness of  
current research  
on mathematical  
teaching-and-  
learning  
processes. The  
book introduces  
the major  
activities of  
ICME-13, namely  
articles from  
the four plenary  
lecturers and  
two plenary*

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*panels, articles  
from the five  
ICMI awardees,  
reports from six  
national  
presentations,  
three reports  
from the  
thematic  
afternoon  
devoted to  
specific  
features of  
ICME-13.*

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*Furthermore, the  
proceedings  
contain  
descriptions of  
the 54 Topic  
Study Groups,  
which formed the  
heart of the  
congress and  
reports from 29  
Discussion  
Groups and 31  
Workshops. The  
additional*



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*important activities of ICME-13, namely papers from the invited lecturers, will be presented in the second volume of the proceedings. This book focuses on how to improve the teaching and*

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*learning of  
primary level  
mathematics  
education within  
resource-  
constrained  
contexts. It  
builds on two  
large numeracy  
projects within  
South Africa  
which speak to  
broader, global  
concerns and*

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*highlight how  
research and  
development not  
only enables one  
to meet ethical  
imperatives but  
also explore how  
further  
interventions  
can be  
developed.  
Teacher and  
research  
communities must*

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*work together to  
create mutually  
beneficial  
relationships  
and establish a  
cohesive  
understanding of  
the requirements  
of primary  
mathematics  
education.*

*The World Book  
Encyclopedia  
ICME-13*

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*The Mathematical  
Sciences in 2025  
Fraud, Myth, and  
Lies*

*Mit Werkzeugen  
Mathematik und  
Stochastik  
lernen - Using  
Tools for  
Learning  
Mathematics and  
Statistics  
Common Core  
Connections*

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*Math, Grade 2*

***The world's most popular spreadsheet program is now more powerful than ever, but it's also more complex. That's where this Missing Manual comes in. With crystal-clear***

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***explanations  
and hands-on  
examples, Excel  
2013: The  
Missing Manual  
shows you how  
to master Excel  
so you can  
easily track,  
analyze, and  
chart your data.  
You'll be using  
new features***

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***like PowerPivot  
and Flash Fill in  
no time. The  
important stuff  
you need to  
know: Go from  
novice to ace.  
Learn how to  
analyze your  
data, from  
writing your  
first formula to  
charting your***



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**results.**

**Illustrate**

**trends.**

**Discover the  
clearest way to  
present your  
data using  
Excel's new  
Quick Analysis  
feature.**

**Broaden your  
analysis. Use  
pivot tables,**

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***slicers, and  
timelines to  
examine your  
data from  
different  
perspectives.  
Import data.  
Pull data from a  
variety of  
sources,  
including  
website data  
feeds and***

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**corporate  
databases.**

**Work from the  
Web. Launch  
and manage  
your workbooks  
on the road,  
using the new  
Excel Web App.  
Share your  
worksheets.  
Store Excel files  
on SkyDrive**

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***and collaborate  
with colleagues  
on Facebook,  
Twitter, and  
LinkedIn.***

***Master the new  
data model.***

***Use PowerPivot  
to work with  
millions of rows  
of data. Make  
calculations.***

***Review***

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***financial data,  
use math and  
scientific  
formulas, and  
perform  
statistical  
analyses.***

***Twenty Years of  
Education  
Transformation  
in Gauteng  
1994 to 2014:  
An Independent***

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***Review  
presents a  
collection of 15  
important  
essays on  
different  
aspects of  
education in  
Gauteng since  
the advent of  
democracy in  
1994. These  
essays talk to***

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***what a provincial education department does and how and why it does these things whether it be about policy, resourcing or implementing projects. Each essay is written***

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*by one or more  
specialist in the  
relevant focus  
area. The book  
is written to be  
accessible to  
the general  
reader as well  
as being  
informative and  
an essential  
resource for the  
specialist*



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***reader. It sheds  
light on aspects  
of how a  
provincial  
department  
operates and  
why and with  
what  
consequences  
certain  
decisions have  
been made in  
education over***

***the last 20  
turbulent years,  
both nationally  
and  
provincially.  
There has been  
no attempt to fi  
t the books  
chapters into a  
particular  
ideological or  
educational  
paradigm, and***

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***as a result the reader will find differing views on various aspects of the Gauteng Department of Educations present and past. We leave the reader to decide to what extent the GDE***

***has fulfilled its educational mandate over the last 20 years.***

***The mathematical sciences are part of nearly all aspects of everyday life- the discipline has***

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***underpinned  
such beneficial  
modern  
capabilities as  
Internet search,  
medical  
imaging,  
computer  
animation,  
numerical  
weather  
predictions,  
and all types of***

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***digital communi-  
cations. The  
Mathematical  
Sciences in  
2025 examines  
the current  
state of the  
mathematical  
sciences and  
explores the  
changes  
needed for the  
discipline to be***

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***in a strong  
position and  
able to  
maximize its  
contribution to  
the nation in  
2025. It finds  
the vitality of  
the discipline  
excellent and  
that it  
contributes in  
expanding ways***

***to most areas  
of science and  
engineering, as  
well as to the  
nation as a  
whole, and  
recommends  
that training for  
future  
generations of  
mathematical  
scientists  
should be re-***



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***assessed in  
light of the  
increasingly cro  
ss-disciplinary  
nature of the  
mathematical  
sciences. In  
addition,  
because of the  
valuable  
interplay  
between ideas  
and people***

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***from all parts of  
the  
mathematical  
sciences, the  
report  
emphasizes  
that  
universities and  
the government  
need to  
continue to  
invest in the  
full spectrum of***

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***the  
mathematical  
sciences in  
order for the  
whole  
enterprise to  
continue to  
flourish long-  
term.***

***Education  
Systems  
Around the  
World***

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**The 23rd ICMI  
Study  
Multilingual  
classroom  
contexts  
Edition 2.5  
Research for  
Development in  
Resource-  
Constrained  
Contexts  
Problems That  
Unlock Student**

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**Thinking, 6-12**  
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**This book explores the challenge of dismantling colonial schooling and how entangled power relations of the past have lingered in post-apartheid South Africa. It examines the ‘on the ground’ history of colonialism from the vantage point of a small town in the**

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**Karoo region, showing how patterns of possession and dispossession have played out in the municipality and schools. Using the strong political and ontological critique of decoloniality theories, the book demonstrates the ways in which government interventions over**

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**many years have  
allowed colonial  
relations and the  
construction of  
racialised differences  
to linger in new forms,  
including unequal  
access to schooling.**

**Written in an  
accessible style, the  
book considers how  
the dream of  
decolonial schooling  
might be realised,**

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**Exam Papers**  
**from the vantage point  
of research on the  
margins. This Karoo  
region also offers an  
interesting case study  
as the site where the  
world's largest radio  
telescope was recently  
located and highlights  
the contrasting logics  
of international 'big  
science' and local  
development needs.  
This book will be of**



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**interest to academics  
and scholars in the  
education field as well  
as to social  
geographers,  
sociologists, human  
geographers,  
historians and policy  
makers.**

**Grade R in Perspective  
is a structured  
academic guide for  
students, educators  
and practitioners in**

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**the field of early child development. It is compiled according to the Curriculum and Assessment Policy Declaration (CAPS) of the National Department of Education 2011 and presents the latest tendencies of international sources. The focus is put on preparing the student**

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**to understand the principles of the informal teaching approach and to implement them. Clear directions are given to develop knowledge, skills and attitudes in the young child so that each learner can achieve self-realisation. Information is given on organising the**

**classroom and the play area to create optimal learning opportunities for the learners. The different levels of development and cultures of the learners are taken into consideration. Valuable suggestions for teaching in practice are illustrated with appropriate examples and photos.**

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**Dieser Band mit  
Beiträgen aus der  
nationalen und  
internationalen  
Forschung zum 60.  
Geburtstag von Prof.  
Dr. Rolf Biehler  
(Universität  
Paderborn) präsentiert  
wissenschaftliche  
Arbeiten zum  
Werkzeugeinsatz beim  
Lehren und Lernen  
von Mathematik im**

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**Allgemeinen sowie von  
Statistik und  
Stochastik im  
Besonderen. Wie ein  
roter Faden durchzieht  
den Festband, wie  
auch schon das  
wissenschaftliche  
Oeuvre von Rolf  
Biehler, ein breites  
Verständnis des  
Begriffs „Werkzeug“  
(engl. „tools“). Die  
Themen decken das**

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**komplette Spektrum  
der  
Mathematikdidaktik  
auf allen Schulstufen  
sowie auf dem  
tertiären Sektor ab. Es  
gibt Beiträge zum  
Einsatz von Tools in  
der Grundschule,  
ebenso wie aus den  
Sekundarstufen, der  
Hochschule und der  
Lehreraus- und  
-weiterbildung. Im**

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**Band werden sowohl  
Beispiele zum  
konkreten Einsatz von  
Werkzeugen im  
Unterricht aufgezeigt,  
als auch Studien zur  
Wirksamkeit von  
Werkzeugen im  
Kontext von  
Mathematiklernen,  
theoretische Artikel  
zum Einsatz von  
Werkzeugen und  
Neuentwicklungen von**



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**Werkzeug-Software  
vorgelegt.**

**Study and Master  
Economic and  
Business Management  
Grade 7 for CAPS  
Learner's Book  
Mathematics  
Grade 11 CAPS, 3 in 1  
The Story of a  
Mathematical Circle  
for Preschoolers  
Teaching Young  
Children Mathematics**

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**Math from Three to  
Seven**  
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This book, "Education Systems Around the World", is a collection of reviewed and relevant research chapters that offer a comprehensive overview of recent developments in the field of social sciences and humanities. The book comprises single chapters authored by

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various researchers and edited by an expert active in the field of social studies and humanities. All chapters are unique but are united under a common research study topic. This publication aims to provide a thorough overview of the latest research efforts by international authors on social studies and

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humanities, and open new possible research paths for further novel developments.

This twenty-third ICMI Study addresses for the first time mathematics teaching and learning in the primary school (and pre-school) setting, while also taking international perspectives, socio-cultural diversity and

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institutional constraints into account. One of the main challenges of designing the first ICMI primary school study of this kind is the complex nature of mathematics at the early level.

Accordingly, a focus area that is central to the discussion was chosen, together with a number of related questions. The broad area of Whole

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Number Arithmetic (WNA), including operations and relations and arithmetic word problems, forms the core content of all primary mathematics curricula. The study of this core content area is often regarded as foundational for later mathematics learning. However, the principles and main goals of

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instruction on the foundational concepts and skills in WNA are far from universally agreed upon, and practice varies substantially from country to country. As such, this study presents a meta-level analysis and synthesis of what is currently known about WNA, providing a useful base from which

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to gauge gaps and shortcomings, as well as an opportunity to learn from the practices of different countries and contexts.

The sociology of education is a rich interdisciplinary field that studies schools as their own social world as well as their place within the larger society. The field draws



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contributions from education, sociology, human development, family studies, economics, politics and public policy. Sociology of Education: An A-to-Z Guide introduces students to the social constructions of our educational systems and their many players, including students and their peers, teachers,

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parents, the broader community, politicians and policy makers. The roles of schools, the social processes governing schooling, and impacts on society are all critically explored. Despite an abundance of textbooks and specialized monographs, there are few up-to-date reference works in this area.

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Features & Benefits:  
335 signed entries fill 2  
volumes in print and  
electronic formats,  
providing the most  
comprehensive  
reference resource  
available on this topic.  
Cross-References and  
Suggestions for Further  
Reading guide readers  
to additional resources.  
A thematic "Reader's  
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articles by broad topic areas as one handy search feature on the e-Reference platform, which also includes a comprehensive index of search terms, facilitating ease of use by both on-campus students and distance learners. A Chronology provides students with historical perspective on the sociology of education.

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Transforming  
researchers' insights into  
improvement in  
mathematics teaching  
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Science in the United  
States

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CAPS Study Guide

Culture and Identity in  
the United States and

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solution to  
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Standards to  
comprehension  
and learning!  
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Connections  
series for Math

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and Language  
Arts, for  
kindergarten to  
grade 5, helps  
every learner  
make the  
connection to  
success!

Provides  
teachers with  
the diagnostic  
tests to help

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determine  
individualized  
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needs. Focused,  
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practice pages  
and self-  
assessments  
guide students  
to reflection and  
exploration for  
deeper learning!



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coherent  
content  
progresses in  
difficulty to  
achieve  
optimum  
fluency.

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standards to  
content has  
never been

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Connections  
series for Math  
and Language  
Arts. Each  
96-page book  
includes an  
assessment test,  
test analysis,  
Common Core  
State Standards

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Alignment  
Matrix, and  
answer key.

The similarities  
between the  
United States  
and South  
Africa with  
respect to race,  
power,  
oppression and  
economic

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inequities are striking, and a better understanding of these parallels can provide educational gains for students and educators in both countries.

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Through shared experiences and perspectives, this volume presents scholarly work from U.S. and South African scholars that advance educational practice in

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support of social  
justice and  
transformative  
learning. It  
provides a  
comprehensive  
framework for  
developing  
transformationa  
l learning  
experiences that  
facilitates

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leadership for social justice, and a deeper understanding of the factors influencing personal, national and global identity. The focus of this publication is on answering the

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central research  
question: How  
can Human  
Rights be  
advanced with  
regard to  
different kinds  
of diversities,  
and in different  
educational  
settings? The  
publication pays



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special attention  
to the  
advancement of  
human rights in  
a variety of educ  
ation-related  
contexts, in  
keeping with  
human rights as  
a declared  
national priority  
for both society

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at large and the  
education  
system. One  
strategic  
priority of the  
Faculty of  
Education is  
research based  
on market  
requirements  
and needs. This  
book strives

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towards  
meeting this  
expectation by  
directly aiming  
at building  
human rights  
and social  
justice in the  
South African  
society, public  
schools and  
higher

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education  
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institutions.

Adjudication in the education context of the constitutional values of dignity, equality and freedom focusses regularly on learners. The

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book highlights  
the value of  
education for  
full-fledged  
citizenship by  
delineating  
what schooling  
should entail to  
inspire learners  
towards both  
claiming equal  
freedoms and

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rights and  
taking  
accountability  
for the  
responsibilities  
attached to  
citizenship.

Task Design In  
Mathematics  
Education  
Mathematics  
Education and

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Language  
Diversity

What is  
Mathematics?  
Social Justice  
and  
Transformative  
Learning  
Human rights in  
diverse  
education  
contexts

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## Decolonising Schools in South Africa

Imagine that you assign a math problem and your students, instead of getting discouraged after not solving it on the first attempt, start working harder--as if on a quest to figure out



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the answer. They talk to each other and enthusiastically share their discoveries.

What could possibly make this fantastic scenario come true?

The answer is: the Open Middle math problems and strategies in this book. Open Middle Math by Robert Kaplinsky gives

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middle and high school teachers the problems and planning guidance that will encourage students to see mathematics in an entirely different light. These challenging and rewarding Open Middle math problems will help you see your

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students build genuine conceptual understanding, perseverance, and creativity. Inside, you'll learn how to: Implement Open Middle math problems that are simultaneously accessible for both students who are struggling and those looking for more

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challenge. Select and create Open Middle math problems that will help you detect students' misconceptions and strengthen their conceptual understanding. Prepare for and facilitate powerful classroom conversations using Open Middle math

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problems. Access resources that will help you continue learning beyond this book. With these practical and intuitive strategies, extensive resources, and Robert's own stories about his journey learning to use Open Middle math problems successfully, you will

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be able to support,  
challenge, and  
motivate all your  
students.

Study & Master  
Mathematical  
Literacy Grade 11  
has been especially  
developed by an  
experienced author  
team according to  
the Curriculum and  
Assessment Policy  
Statement (CAPS).

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This new and easy-to-use course helps learners to master essential content and skills in Mathematical Literacy. The comprehensive Learner's Book includes: \* thorough coverage of the basic skills topics to lay a sound foundation for the development of knowledge, skills and

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concepts in  
Mathematical  
Literacy \* margin  
notes to assist  
learners with new  
concepts - especially  
Link boxes, that refer  
learners to the basic  
skills topics covered  
in Term 1, Unit 1-16 \*  
ample examples with  
a strong visual input  
to connect  
Mathematical



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Literacy to everyday life.

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

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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.

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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

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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  
*Page 124/180*

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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

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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

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forensic science  
educators.

Math in Focus  
Workbook, Book a  
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An Elementary  
Approach to Ideas  
and Methods

How Education  
Innovation Can  
Improve Student  
Achievement :  
Hearing Before the  
Subcommittee on

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Early Childhood,  
Elementary and  
Secondary Education,  
Committee on  
Education and the  
Workforce, U.S.  
House of  
Representatives, One  
Hundred Thirteenth  
Congress, First  
Session, Hearing Held  
in Washington, DC,  
February 14, 2013  
An Academic and



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Practice-orientated  
Manual for Education  
in Grade R  
TIMSS 2011  
International Results  
in Mathematics  
Mathematical  
Literacy, Grade 11  
The volume of  
research into the  
economics of  
education has  
grown rapidly in

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recent years. In  
this

comprehensive  
new Handbook,  
editors Eric  
Hanushek,  
Stephen Machin,  
and Ludger  
Woessmann  
assemble original  
contributions  
from leading

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researchers,  
addressing  
contemporary  
advances in the  
field. Each chapter  
illuminates major  
methodological  
and theoretical  
developments and  
directs the reader  
to productive new  
lines of research.

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As a result, these concise overviews of the existing literature offer an essential

‘ jumpstart ’ for both students and researchers alike.

Demonstrates how new methodologies are yielding fresh

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perspectives in  
education

economics Uses  
rich data to study  
issues of high  
contemporary  
policy relevance  
Explores  
innovations in  
higher education,  
competition, and  
the uses of

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In The School  
Reform

Landscape: Fear,  
Mythologies, and  
Lies, the authors  
take an in-depth  
and controversial  
look at school  
reform since the  
launch of Sputnik.  
They scrutinize

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school reform  
events, proposals,  
and policies from  
the last 60 years  
through the lens  
of critical social  
theory and  
examine the  
ongoing tensions  
between the need  
to keep a vibrant  
unitary system of

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public education  
and the ongoing  
assault by  
corporate and  
elite interests in  
creating a dual  
system. Some of  
events, proposals,  
and policies  
critiqued include  
the Sputnik myth,  
A Nation At Risk,



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No Child Left Behind, the lies of the Common Core State Standards Initiative, and other common reform schemes. The authors provide an evidence-based contrarian view of the free-market

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reform ideas and  
pierce the veil of  
the new reform  
policies to find  
that they are built  
not upon  
empirical  
evidence, but  
instead rest solidly  
on foundations of  
myth, fear, and  
lies. Ideas for a

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new set of reform policies, based on empirical evidence and supportive of a unitary, democratic system of education are presented.

Research for  
Educational

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Change presents ways in which educational research can fulfil its commitments to educational practice.

Focussing its discussion within the context of mathematics education, it

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argues that while r  
esearch-

generated insights  
can have

beneficial effects  
on learning and

teaching, the

question of how

these effects are

to be generated

and sustained is

far from evident.

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The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice. In the first part of the

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book, four teams of researchers use different methodologies while analysing the same corpus of data, collected in a South African mathematics classroom. In the second part, each of these teams

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makes a specific proposal about what can be done and how so that its research-generated insights have a tangible, beneficial impact on what is happening in mathematical classrooms.



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Combining two discourses – that of researchers speaking to one another, and that of researchers communicating their insights to those responsible for educational practice – the book deals with

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the perennial  
question of  
communication  
between those  
who study  
educational  
processes and  
those who are  
directly  
responsible for  
teacher education,  
educational

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research and  
classroom  
practices. This  
book will be key  
reading for  
postgraduates,  
researchers and  
academics in  
education and  
particularly in the  
areas of  
mathematics

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education,  
education

research, teacher  
education and  
classroom

practice. It will  
also appeal to  
teacher educators,  
practitioners and  
undergraduate  
students  
interested in

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research.

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Education,  
Teaching and  
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The 21st ICMI  
Study  
Handbook of the  
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Perspective  
Twenty Years of  
Education  
Transformation in  
Gauteng 1994 to  
2014

*An*

*Introduction*

*Page 150/180*

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*to Statistical  
Exam Papers  
Learning*

*provides an  
accessible  
overview of  
the field of  
statistical  
learning, an  
essential  
toolset for  
making sense  
of the vast*

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*and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years. This book*



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*presents some  
Exam Papers*

*of the most*

*important*

*modeling and*

*prediction*

*techniques,*

*along with*

*relevant*

*applications.*

*Topics include*

*linear*

*regression, cl*

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*classification,  
resampling  
methods,  
shrinkage  
approaches,  
tree-based  
methods,  
support vector  
machines,  
clustering,  
and more.*

*Color graphics*

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*and real-world  
Exam Papers*

*examples are  
used to*

*illustrate the  
methods*

*presented.*

*Since the goal  
of this*

*textbook is to  
facilitate the*

*use of these  
statistical*

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*learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods*

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*presented in  
R, an  
extremely  
popular open  
source  
statistical  
software  
platform. Two  
of the authors  
co-wrote The  
Elements of  
Statistical*

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*Learning  
(Hastie,  
Tibshirani and  
Friedman, 2nd  
edition 2009),  
a popular  
reference book  
for statistics  
and machine  
learning  
researchers.  
An*

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*Introduction  
to Statistical  
Learning  
covers many of  
the same  
topics, but at  
a level  
accessible to  
a much broader  
audience. This  
book is  
targeted at*

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*statisticians*  
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*and non-*

*statisticians*  
*alike who wish*  
*to use cutting-*  
*edge*

*statistical*  
*learning*  
*techniques to*  
*analyze their*  
*data. The text*  
*assumes only a*



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*previous*

*course in*

*linear*

*regression and*

*no knowledge*

*of matrix*

*algebra.*

*By far the*

*majority of*

*South African*

*students get*

*their*

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*schooling in a  
second*

*language,*

*which means*

*that our*

*classrooms are  
multilingual.*

*This state of  
affairs is not*

*exclusive to*

*our country,*

*as can be seen*

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*in the many  
academic*

*conferences on  
multilingual  
learning and  
teaching.*

*Terms like tra  
nslanguaging  
and biliteracy  
appear in many  
articles and  
books that*

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*discuss the  
role language  
in education.*

*What makes the  
multilingual  
nature of our  
South African  
classrooms  
challenging,  
is the fact  
that many  
learners*

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*switch from  
one language  
of learning  
and teaching  
to another at  
various points  
in their  
school career:  
from home  
language to  
English or  
Afrikaans*

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*after the  
foundation  
phase, from  
one language  
of learning  
and teaching  
to another  
when they move  
to new  
schools, high  
school or  
tertiary*

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*institutions.  
This book is  
an attempt to  
highlight the  
transitions;  
from home to  
school, from  
foundation to  
intermediate  
phase, from  
primary to  
high school,*

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*and from high school to tertiary institutions. This book is a captivating account of a professional mathematician's experiences conducting a math circle*



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for  
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preschoolers  
in his  
apartment in  
Moscow in the  
1980s. As  
anyone who has  
taught or  
raised young  
children  
knows,  
mathematical

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education for  
Exam Papers  
little kids is  
a real  
mystery. What  
are they  
capable of?  
What should  
they learn  
first? How  
hard should  
they work?  
Should they

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even "work" at all? Should we push them, or just let them be? There are no correct answers to these questions, and the author deals with them in

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*classic math-  
circle style:  
he doesn't ask  
and then  
answer a  
question, but  
shows us a  
problem--be it  
mathematical  
or pedagogical  
--and  
describes to*

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*us what  
happened. His  
book is a  
narrative  
about what he  
did, what he  
tried, what  
worked, what  
failed, but  
most  
important,  
what the kids*

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*experienced.*

*This book does not purport to show you how to create precocious high achievers. It is just one person's story about things he tried with*

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*a half-dozen  
young  
children. Math  
ematicians,  
psychologists,  
educators,  
parents, and  
everybody  
interested in  
the  
intellectual  
development in*

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*young children  
Exam Papers*

*will find this  
book to be an  
invaluable,  
inspiring  
resource. In  
the interest  
of fostering a  
greater  
awareness and  
appreciation  
of mathematics*



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*and its  
connections to  
other  
disciplines  
and everyday  
life, MSRI and  
the AMS are  
publishing  
books in the  
Mathematical  
Circles  
Library series*

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*as a service  
to young  
people, their  
parents and  
teachers, and  
the  
mathematics  
profession.*

*Titles in this  
series are co-  
published with  
the*

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Research  
Institute  
(MSRI) .

with  
Applications  
in R

Raising the  
Bar

Research for  
Educational

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*Change*

*Open Middle  
Math*

*Building the  
Foundation:  
Whole Numbers  
in the Primary  
Grades  
Sociology of  
Education*