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The digital age provides ample opportunities for enhanced learning experiences for students; however, it can also present challenges for educators who must adapt to and implement new technologies in the classroom. The

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Handbook of Research on
Transforming Mathematics
Teacher Education in the Digital
Age is a critical reference source
featuring the latest research on
the development of educators'
knowledge for the integration of

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technologies to improve classroom instruction. Investigating emerging pedagogies for preservice and in-service teachers, this publication is ideal for professionals, researchers, and educational designers interested

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in the implementation of
technology in the mathematics
classroom.

SpringBoard
Mathematics Geometry Handbook
of Research on Transforming
Mathematics Teacher Education

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in the Digital Age IGI Global
The College Board's official Pre-
AP program is SpringBoard, which
consists of a full curriculum in
mathematics and English
language arts for middle school
and high school, integrated with

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professional development and formative assessments.

First released in the Spring of 1999, *How People Learn* has been expanded to show how the theories and insights from the original book can translate into

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actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on

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actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is

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this different from non-experts?
What can teachers and schools do-
with curricula, classroom settings,
and teaching methods--to help
children learn most effectively?
New evidence from many
branches of science has

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significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. How People Learn examines these

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findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth

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learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing

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knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday

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settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education. Handbook of International Research in Mathematics

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Education

Mathematical Methods for an
Ancient Art, Second Edition
English textual power. Level 2
5 Principles of the Modern
Mathematics Classroom
Algebra 1

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Assessment for Learning and
Teaching in Primary Schools

*Regardless of the field or
discipline, technology is
rapidly advancing, and
individuals are faced with
the challenge of adapting*

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*to these new innovations.
To remain up-to-date on
the current practices,
teachers and
administrators alike must
constantly stay informed
of the latest advances in*

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*their fields. Teacher
Training and Professional
Development: Concepts,
Methodologies, Tools, and
Applications contains a
compendium of the latest
academic material on the*

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methods, skills, and techniques that are essential to lifelong learning and professional advancement. Including innovative studies on teaching quality, pre-

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*service teacher
preparation, and faculty
enrichment, this multi-
volume book is an ideal
source for academics,
professionals, students,
practitioners, and*

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researchers.

Students pursue problems they're curious about, not problems they're told to solve. Creating a math classroom filled with confident problem solvers

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starts by introducing challenges discovered in the real world, not by presenting a sequence of prescribed problems, says Gerald Aungst. In this groundbreaking book, he

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offers a thoughtful approach for instilling a culture of learning in your classroom through five powerful, yet straightforward principles: Conjecture,

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*Collaboration,
Communication, Chaos, and
Celebration. Aungst shows
you how to Embrace
collaboration and
purposeful chaos to help
students engage in*

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*productive struggle, using
non-routine and unsolved
problems Put each
chapter's principles into
practice through a variety
of strategies, activities,
and by incorporating*

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*technology tools Introduce
substantive, lasting
cultural changes in your
classroom through a
manageable, gradual shift
in processes and behaviors
Five Principles of the*

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Modern Mathematics

*Classroom offers new ideas
for inspiring math
students by building a
more engaging and
collaborative learning
environment. "Bravo! This*

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*book brings a conceptual
framework for K-12
mathematics to life. As a
parent and as the
executive director of
Edutopia, I commend Aungst
for sharing his 5*

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principles. This is a perfect blend of inspiring and practical. Highly recommended!" Cindy Johanson, Executive Director, Edutopia George Lucas Educational

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Foundation "Aungst ignites the magic of mathematics by reminding us what makes mathematicians so passionate about their subject matter. Grounded in research, his work

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takes us on a journey into classrooms so that we may take away tips to put into practice today." Erin Klein, Teacher, Speaker, and Author of Redesigning Learning Spaces Take a

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*look at Gerald describe
why you need this book!
This textbook, designed to
meet the needs of students
on the teaching assistant
foundation degree,
provides an accessible*

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*overview of the teaching
assistant's role,
incorporating practical
tasks that will challenge
students to reflect on and
improve their day-to-day
practice. Set within a*

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*wider educational context,
and full of thoroughly
grounded advice
throughout, this book
includes: personal
professional development -
helping teaching*

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*assistants to understand
their role and their
workplace growth,
development and learning -
introducing the basic
theories human development
and learning behaviour*

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*management - exploring
strategies that encourage
and support appropriate
behaviour today's
curriculum and how
children learn literacy,
maths, science and*

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*technology understanding
inclusive education,
exploring access,
participation and
additional needs for
specific groups of young
people. With activities,*

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task lists, discussion points, ideas, summary points and notes on further reading, this textbook will be the essential companion for all foundation degree

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*students, as well as a
useful handbook for
teaching assistants in
practice.*

*'Unlike many books based
on research work this book
doesn't just let teachers*

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*know what is going wrong
with children's learning
it actually gives some
practical advice about
what to do next. The whole
book is based upon
extensive observation and*

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recording of individual children and their difficulties with mathematics. These children are the most difficult to plan for in a busy classroom and the

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authors appreciate the small steps and the different learning styles approaches needed for these children. This approach fits well with the NNS wave and

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springboard materials but takes the analysis of the individual's difficulties to a more detailed level. The book brings together research carried out across a range of

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countries and therefore shows the versatility of the approaches taken. This will be a very useful book for trainee teachers as it exemplifies how to use assessment to feed into

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teaching. It will be helpful for class teachers and mathematics co-ordinators as well as SENCOs to assist in improving the teaching and learning for specific

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*children in our schools' –
Mary Briggs, Primary and
Early Years PGCE Co-
ordinator, Institute of
Education, University of
Warwick 'This is a highly
practical resource that*

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*will be appreciated by
classroom and specialist
teachers alike. It will
provide teachers new to
the Math Recovery program
with practical help and
support to diagnose errors*

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and misconceptions in early numeracy. Practicing Math Recovery Specialists will be thrilled with the addition of four new highly focused assessments and an elaboration of the

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*Learning Framework in
Number. Early Numeracy is
admirably grounded in
international research and
well-established theory,
characteristics that are
much sought after in the*

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*current data driven
educational environment.
Like many others, I was
drawn to Math Recovery
after reading the first
edition of Early Numeracy.
This second edition is a*

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treasure - it is exciting to consider the impact it will have on children and teachers, and to the growth of the Math Recovery program' - Audrey Murray, Lead Teacher,

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*Midwest Math Recovery
Training Center,
Minneapolis This text has
been fully updated to
include developments and
refinements brought about
by widespread*

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international application of the assessment tools in the Mathematics Recovery Programme. The book will help practitioners to identify and provide detailed analyses of all

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children but especially those who are able and those who underachieve in early numeracy. It will enable teachers, learning support personnel, numeracy consultants and

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*educational psychologists
to advise colleagues and
parents on children's
number knowledge and
strategies for early
numeracy. The Mathematics
Recovery Programme has*

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been successfully applied in Australia, the United Kingdom and Ireland, the United States and Canada, both in specialist interventions and classroom settings. The

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revised version shows how familiarisation with, and understanding of, the diagnostic assessment tools has allowed teachers to become more knowledgeable in

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*understanding children's
difficulties and
misconceptions, and more
skilled and confident in
planning programmes of
intervention and
monitoring the children's*

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progress. This new edition includes: - Integrated frameworks of useful tasks for assessing children's number knowledge and strategies; - Four separate and revised

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*diagnostic assessment
interviews; - Assessments
for addition and
subtraction strategies,
Base Ten Arithmetical
strategies, Early Grouping
strategies, and Advanced*

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Grouping strategies in the four operations; - How the assessment process has impacted significantly on teachers' professional development and contributed to the raising

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*of standards in early
numeracy.*

*The Mathematical Gazette
English Language Arts
The Elements of Creativity
and Giftedness in
Mathematics*

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*Bridging the Gap to
University Mathematics
Springboard Mathematics
100 Days of Cool*

**Helps to ease the transition between
school/college and university
mathematics by (re)introducing**

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readers to a range of topics that they will meet in the first year of a degree course in the mathematical sciences, refreshing their knowledge of basic techniques and focussing on areas that are often perceived as the most challenging. Each chapter starts with a "Test Yourself" section so that readers

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can monitor their progress and readily identify areas where their understanding is incomplete. A range of exercises, complete with full solutions, makes the book ideal for self-study.

Are you confused about Special Education Needs (SEN) and Learning

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Difficulties and Disabilities (LDD)? Are you unclear about how to identify and address the needs of your pupils in the context of the new Inclusion Development Programme? Do you need support to develop a great system that links together recent initiatives and government legislation?

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This book is intended for SENCOs and other staff, working from the Foundation stage to Key Stage 4 with management responsibility for SEN/LDD systems in schools. The book will: explore recent initiatives and terminology in the context of the [Inclusion Development Programme]

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and 'Narrowing the Gap' examine the implications for school policy and practice link together related SEN/LDD development help schools to develop co-ordinated systems that enable all learners with SEN/LDD to meet their potential and aspirations.

Four students arrive on the first day of

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school looking cool and their teacher challenges them to keep it up as they count down one hundred days to a cool celebration. Simultaneous.

Click on the link below to access this title as an e-book. Please note that you may require an Athens account.

Mathematics for Neuroscientists

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Teacher Training and Professional
Development: Concepts,
Methodologies, Tools, and
Applications

The SENCO Survival Guide
Resources in Education

A Textbook for Teaching in the Age of
Technology

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Quick, Creative Activities to Launch Learning

"SpringBoard is a world-class English Language Arts Program for students in grade 6-12. Written by teachers for teachers. SpringBoard offers proven

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instructional design to get students ready for the AP, the SAT, and college" -- Back cover.

Springboards contains 50 creative activities and demonstrations designed to address—in 15 minutes or

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less—topics like goal setting, focusing attentions, achieving the “impossible,” time management, and teamwork. Group leaders, therapists, experiential program facilitators, and educators

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of all kinds will appreciate these quick, emotive activities written deliberately to draw participants' attention and encourage deep thinking and learning.

Daily Math Stretches offers

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practice in algebraic thinking, geometry, measurement, and data for grades 3-5 to provide an early foundation for mastering mathematical learning. Written by Guided Math author Laney Sammons

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and with well-known, research-based approaches, this product provides step-by-step lessons, assessment information, and a snapshot of how to facilitate these math discussions in your classroom. Digital resources

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are also included for teacher guidance with management tips, classroom set-up tips, and interactive whiteboard files for each stretch.

The magnum opus of one of the world's leading origami

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artists, the second edition of Origami Design Secrets reveals the underlying concepts of origami and how to create original origami designs. Containing step-by-step instructions for 26 models, this book is not

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just an origami cookbook or list of instructions—it introduces the fundamental building blocks of origami, building up to advanced methods such as the combination of uniaxial bases, the circle/river

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method, and tree theory.
With corrections and
improved illustrations, this
new expanded edition also
covers uniaxial box
pleating, introduces the new
design technique of hex
pleating, and describes

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methods of generalizing polygon packing to arbitrary angles. With coverage spanning the foundations of origami construction and advanced methods using both paper and pencil and custom-built free software, Origami

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Design Secrets helps readers cultivate the intuition and skills necessary to develop their own designs. It takes them beyond merely following a recipe to crafting a work of art.

Developing Deep Knowledge in

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Middle School Mathematics
A Decade of Middle School
Mathematics Curriculum
Implementation
SpringBoard Mathematics
Creating a Culture of
Innovative Thinking
Brain Literacy for Educators

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and Psychologists

Handbook of Research on
Transforming Mathematics
Teacher Education in the
Digital Age

Wharton professor Richard Shell

created the Success Course to help his

world-class MBA students answer two

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questions that aren't as obvious as they seem: "What, for me, is success?" and "How will I achieve it?" Based on that acclaimed course, Springboard shows how to assess the hidden influences of family, media, and culture on your beliefs about success. Then it helps you

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figure out your unique passions and capabilities, so you can focus more on what gives meaning and excitement to your life, and less on what you are “supposed” to want.

A textbook for a pre-service or in-service course teaching basic neuroscience and

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brain imaging to teachers and other professionals who assess children with school learning problems. It is also suitable as a supplementary text in courses on literacy or numeracy. The purpose is to provide general principles rather than a plethora of facts.

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Research-based strategies to reach English learners – now aligned with the Common Core! Enable your English learners to build higher-level math skills and gain greater fluency in their new language—all while achieving the goals of the Common Core. Now in its second

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*edition, this trusted resource includes:
Mathematics lesson scenarios in every
chapter, directly connected to Common
Core Standards and the Standards for
Mathematical Practice Instructional
approaches that promote participation,
hands-on learning, and true*

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*comprehension of mathematics concepts
that benefit ALL students Sample
lessons, visuals, and essential vocabulary
that connect mathematical concepts with
language development
Jumpstart your students' minds with
daily warm-ups that get them thinking*

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mathematically and ready for instruction. Daily Math Stretches offers practice in algebraic thinking, geometry, measurement, and data for grades 3-5 to provide an early foundation for mastering mathematical learning.

Written by Guided Math author Laney

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Sammons and with well-known, research-based approaches, this product provides step-by-step lessons, assessment information, and a snapshot of how to facilitate these math discussions in your classroom. Digital resources are also included for teacher guidance with

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*management tips, classroom set-up tips,
and interactive whiteboard files for each
stretch.*

International Perspectives

How People Learn

Early Numeracy

Building Conceptual Understanding

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Teaching Mathematics in Grades 6 - 12

***Mathematics for Neuroscientists,
Second Edition, presents a
comprehensive introduction to
mathematical and computational
methods used in neuroscience to
describe and model neural***

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components of the brain from ion channels to single neurons, neural networks and their relation to behavior. The book contains more than 200 figures generated using Matlab code available to the student and

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scholar. Mathematical concepts are introduced hand in hand with neuroscience, emphasizing the connection between experimental results and theory. Fully revised material and corrected text Additional

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chapters on extracellular potentials, motion detection and neurovascular coupling Revised selection of exercises with solutions More than 200 Matlab scripts reproducing the figures as well as a selection of

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***equivalent Python scripts
Eminent scholars from around
the globe gathered to discuss
how educational systems would
change if the prevailing
principles of constructivism were
applied to three major aspects of***

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those systems -- knowledge and learning, communication, and environment. This volume provides documentation of the proceedings of this important meeting - - the Early Childhood Action Group of the Sixth

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***International Congress on
Mathematics Education. This
international assembly,
representing such diverse
disciplines as mathematics and
math education, epistemology,
philosophy, cognitive science,***

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psycholinguistics, and science education, is the first to examine early childhood mathematics education from constructivist and international perspectives in addition to formulating recommendations for future

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work in the field.

***This book brings together
mathematics education research
that makes a difference in both
theory and practice - research
that anticipates problems and
needed knowledge before they***

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***become impediments to
progress.***

***This book is essential reading for
your year as a primary newly
qualified teacher (NQT). It
provides support through advice,
reassurance and practical***

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strategies, and encourages you to critically reflect on your experiences so that you can get the most from your induction period. Term by term, the book guides you through the transition from trainee teacher to

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becoming a confident class teacher responsible for the organisation, management and learning of the pupils in your charge. All aspects of life in the classroom are considered, from the practicalities of setting up

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***and resourcing the classroom
and creating displays to more
strategic level thinking about
leading learning and wider
school responsibilities. The text
tackles key issues such as
classroom organisation,***

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homework, writing Individual Education Plans, record keeping and the use of data for tracking pupil progress, and engaging with pupils, parents, colleagues and outside agencies. The final section focuses on the end of

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***induction and what lies beyond
for your future career in
teaching.***

***Origami Design Secrets
Resources for Preparing Middle
School Mathematics Teachers
English textual power. Level 3***

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***The Nuts and Bolts of Everything
You Need to Know
Enhancing Primary Mathematics
Teaching
Concepts, Methodologies, Tools,
and Applications
Associate Editors Fran***

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***Arbaugh, University of
Missouri-Columbia, David
C. Webb, University of
Colorado at Boulder and
Murrel Brewer Hoover,
WVSTEM Center @
Marshall University The***

purpose of this book is to document the work of the Show-Me Project (1997-2007) and to highlight lessons learned about curriculum implementation.

***Although the Show-Me
Project was charged with
promoting the
dissemination and
implementation of four
distinct comprehensive
curriculum programs***

***(Connected Mathematics,
Mathematics in Context,
MathScape, and
MathThematics), most of
the lessons learned from
this work are not
curriculum specific.***

Rather, they cut across the four programs and share commonalities with standards-based curriculum reform at any level. We believe that documenting these

lessons learned will be one of the legacies of the Show-Me Project. We anticipate that the comprehensive nature of this work will attract readers from multiple

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***audiences that include
state and district
mathematics supervisors,
middle grades
mathematics teachers
and administrators
involved in curriculum***

***reform, as well as
mathematics teacher
educators. Those about to
embark on the review of
curriculum materials will
appreciate reading about
the processes employed***

by other districts.

***Readers with interests in
a particular curriculum
program will be able to
trace the curriculum-
specific chapters to gain
insights into how the***

***design of the curricula
relate to professional
development, adoption
and implementation
issues, and teachers'
personal experience using
the curriculum materials.***

Individuals who provide professional development at the middle grades level will find chapters that they can use for both general and focused discussions. Teachers at

***all stages of
implementation will
recognize their own
experiences in reading
and reflecting on the
stories of teacher change.
Mathematics educators***

will find ideas on how these curricula can be used in the preparation of preservice middle grades teachers.

This core text for primary trainee teachers is a clear

***introduction to the
different kinds of
assessment and their
purposes. Throughout the
book, tasks encourage the
reader to practise
assessment skills and to***

***reflect on planning,
listening, questioning,
observing, diagnosing
and target-setting. This
second edition is
referenced throughout to
the 2007 QTS Standards***

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***and has been fully
updated to reflect the
Primary National Strategy
and key initiatives such
as Every Child Matters.
There is increased
emphasis on peer***

assessment and target-setting linked to personalised learning. In addition, new material on Early Years observation and foundation/core subjects has been added.

This book examines the mathematical difficulties in typical and atypical populations. It discusses the behavioural, educational and neuropsychological

characteristics of people with mathematical difficulties, and educational interventions to prevent, diagnose, treat or ameliorate such difficulties. The book

***brings together studies
from different disciplines,
including developmental
psychology, neuroscience
and education, and
includes perspectives
from practicing teachers.***

The book is divided into three major sections. The first includes chapters about the nature and characteristics of mathematical difficulties in the population as a

whole, in relation to both psychology and education. The second deals with mathematical difficulties in children with other problems such as specific language

***impairment and dyslexia.
The third discusses
methods of interventions
aimed at preventing,
treating or ameliorating
mathematical difficulties,
and will include***

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***discussions of assessment
and diagnosis.***

***A journey into the vibrant
and intriguing world of
mathematics education
Teaching Mathematics in
Grades 6 - 12 explores***

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***how research in
mathematics education
can inform teaching
practice in grades 6-12.
The author shows
secondary mathematics
teachers the value of***

***being a researcher in the
classroom by constantly
experimenting with
methods for developing
students' mathematical
thinking and then
connecting this research***

to practices that enhance students' understanding of the material. The chapters in Part I introduce secondary teachers to the field of mathematics education

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***with cross-cutting issues
that apply to teaching
and learning in all
mathematics content
areas. The chapters in
Part II are devoted to
specific mathematics***

content strands and describe how students think about mathematical concepts. The goal of the text is to have secondary math teachers gain a deeper understanding of

the types of mathematical knowledge their students bring to grade 6 - 12 classrooms, and how students' thinking may develop in response to different teaching

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strategies.

***The British National
Bibliography
Developing Research-
Based Instructional
Practices
Mathematical Difficulties***

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***Assessment for Teaching
and Intervention
Launching Your Personal
Search for Success
Surviving and Thriving as
a Primary NQT***

The Elements of Creativity

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and Giftedness in
Mathematics edited by
Bharath Sriraman and
KyeongHwa Lee covers recent
advances in mathematics
education pertaining to the
development of creativity
and giftedness. The book is

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international in scope in
the “sense” that it includes
numerous studies on
mathematical creativity and
giftedness conducted in the
U.S.A, China, Korea, Turkey,
Israel, Sweden, and Norway
in addition to cross-

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national perspectives from
Canada and Russia. The
topics include problem
-posing, problem-solving and
mathematical creativity; the
development of mathematical
creativity with students,
pre and in-service teachers;

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cross-cultural views of
creativity and giftedness;
the unpacking of notions and
labels such as high
achieving, inclusion, and
potential; as well as the
theoretical state of the art
on the constructs of

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mathematical creativity and giftedness. The book also includes some contributions from the first joint meeting of the American Mathematical Society and the Korean Mathematical Society in Seoul, 2009. Topics covered

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in the book are essential reading for graduate students and researchers interested in researching issues and topics within the domain of mathematical creativity and mathematical giftedness. It is also

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accessible to pre-service
and practicing teachers
interested in developing
creativity in their
classrooms, in addition to
professional development
specialists, mathematics
educators, gifted educators,

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and psychologists.

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experience in offering
various mathematics
education courses to
prospective teachers in the
US and Canada. In

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particular, the content can support one or more of 24-semester-hour courses recommended by the Conference Board of the Mathematical Sciences (2012) for the mathematical preparation of middle school

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teachers. The textbook integrates grade-appropriate content on all major topics in the middle school mathematics curriculum with international recommendations for teaching the content, making it

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relevant for a global readership. The textbook emphasizes the inherent connections between mathematics and real life, since many mathematical concepts and procedures stem from common sense, something

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that schoolchildren intuitively possess. This focus on teaching formal mathematics with reference to real life and common sense is essential to its pedagogical approach. In addition, the textbook

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stresses the importance of being able to use technology as an exploratory tool, and being familiar with its strengths and weaknesses. In keeping with this emphasis on the use of technology, both physical

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(manipulatives) and digital (commonly available educational software), it also explores e.g. the use of computer graphing software for digital fabrication. In closing, the textbook addresses the issue

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of creativity as a crucial aspect of education in the digital age in general, and in mathematics education in particular.

"Cheryl Beaver, Laurie Burton, Maria Fung, Klay Kruczek, editors"--Cover.

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