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Exploring Mathematics Book for Class 2 Rashmi

Katyal 2020-04-08 Goyal Brothers Prakashan

Progress in Mathematics Book for class 4 Rashmi

Katyal 2020-04-01 Goyal Brothers Prakashan

**Oswaal ISC Physics, Chemistry & Maths Class 12
Sample Question Papers + Question Bank (Set of 6
Books) for 2023 Board Exam (based on the latest**

CISCE/ICSE Specimen Paper) Oswaal Editorial
Board 2022-11-03 ISC Class 12 sample Paper for
Physics, Chemistry & Maths 2022-2023 is one of the
best ISC reference books for class 12 Physics,
Chemistry & Maths board exams. The ISC specimen
sample paper class 12 maths 2022-23 includes latest
solved board specimen papers which were released
in July 2022. Along with ISC Class 12 sample Paper
for Physics, Chemistry & Maths 2022-2023, 5 sample
question papers are available for free on Oswaal 360
website. It contains ISC board specimen paper
analysis to provide students with better exam

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insight. The ISC Class 12 sample Paper for Physics,
Chemistry & Maths 2022-2023 includes 10 sample
papers which comprise 5 solved papers & 5 self-
assessment papers which are designed as per the
latest ISC board specimen paper 2023. The ISC
specimen sample paper class 12 Physics, Chemistry
& Maths 2022-23 also contains on-tips notes and
revision notes for quick revision and robust
learning. To top it all, advanced learning tools such
as Mind Maps & Mnemonics for 1000+ concepts are
also included in the ISC specimen sample paper class
12 Physics, Chemistry & Maths 2022-23 for blended
learning. The best ISC reference book for class 12
Physics, Chemistry & Maths board exams contains
200+ MCQs and objective type questions for
enhanced practice. ISC Class 12 sample Paper for
Physics, Chemistry & Maths 2022-2023 is designed
to offer a better understanding of the topics and
concepts to score maximum in ISC class 12 board

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exams 2023. Students are required to get this ISC Class 12 sample Paper for Physics, Chemistry & Maths 2022-2023 to boost their confidence about a particular topic or the entire chapter according to their needs. It is to assist in understanding the board examination scheme and clarity of concepts for exam preparations.

Planning Curriculum in Mathematics Jodean E. Grunow 2001 This document is designed to facilitate the state of Wisconsin's Planning Curriculum in Mathematics. Planning Curriculum in Mathematics complements Wisconsin's Model Academic Standards for Mathematics and puts into action the standards in the latter document. It is hoped that these materials will serve as springboards for contemplation by curriculum planners, developers, implementers, and evaluators as they build district programs. This document offers a focus on teaching and learning, inclusion of

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research, discussion of issues, and practical assistance. This book contains: (1) an extensive compendium of resources; (2) reflects the underlying belief that mathematics must be taught and learned with understanding; and (3) is a policy piece. Chapters include: (1) "We Are All Learners of Mathematics"; (2) "Teaching and Learning Mathematics with Understanding"; (3) "Curriculum, Instruction, and Assessment"; (4) "Designing Professional Development To Promote Understanding"; (5) "Putting the Standards into Action"; (6) "Using Research To Guide Mathematics Program Development"; (7) "Foundations for Consideration in Mathematics Program Development"; (8) "How Does a District Look at Mathematics Program Development?"; and (9) "Commitment and Adaptability." (MM)

Progress in Mathematics Book for class 3 Rashmi

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Progress in Mathematics Book for Class 1 Rashmi Katyal 2020-04-01 Goyal Brothers Prakashan
Oswaal ISC English Paper-1, English Paper-2, Physics, Chemistry & Maths Class 12 Sample Question Papers (Set of 5 Books) for 2023 Board Exam (based on the latest CISCE/ICSE Specimen Paper) Oswaal Editorial Board 2022-11-03 ISC Class 12 sample Paper for English Paper-1, English Paper-2, Physics, Chemistry & Maths 2022-2023 is one of the best ISC reference books for class 12 English Paper-1, English Paper-2, Physics, Chemistry & Maths board exams. The ISC specimen sample paper class 12 maths 2022-23 includes latest solved board specimen papers which were released in July 2022. Along with ISC Class 12 sample Paper for English Paper-1, English Paper-2, Physics, Chemistry & Maths 2022-2023, 5 sample question papers are available for free on Oswaal 360 website. It contains ISC board specimen paper analysis to

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provide students with better exam insight. The ISC Class 12 sample Paper for English Paper-1, English Paper-2, Physics, Chemistry & Maths 2022-2023 includes 10 sample papers which comprise 5 solved papers & 5 self-assessment papers which are designed as per the latest ISC board specimen paper 2023. The ISC specimen sample paper class 12 English Paper-1, English Paper-2, Physics, Chemistry & Maths 2022-23 also contains on-tips notes and revision notes for quick revision and robust learning. To top it all, advanced learning tools such as Mind Maps & Mnemonics for 1000+concepts are also included in the ISC specimen sample paper class 12 English Paper-1, English Paper-2, Physics, Chemistry & Maths 2022-23 for blended learning. The best ISC reference book for class 12 English Paper-1, English Paper-2, Physics, Chemistry & Maths board exams contains 200+MCQs and objective type questions for enhanced practice. ISC

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Class 12 sample Paper for English Paper-1, English Paper-2, Physics, Chemistry & Maths 2022-2023 is designed to offer a better understanding of the topics and concepts to score maximum in ISC class 12 board exams 2023. Students are required to get this ISC Class 12 sample Paper for English Paper-1, English Paper-2, Physics, Chemistry & Maths 2022-2023 to boost their confidence about a particular topic or the entire chapter according to their needs. It is to assist in understanding the board examination scheme and clarity of concepts for exam preparations.

Hands-On Math Projects With Real-Life

Applications Judith A Muschla 2011-01-04 The second edition of this hands-on math guide features sixty engaging projects for students in grades six to twelve learn math concepts and skills. This book is filled with classroom-tested projects that help students build skills in problem solving, critical

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thinking, and decision making. They also support a positive group environment by emphasize cooperative learning, group sharing, verbalizing ideas, and research skills, as well as writing clearly in mathematics and across other subject areas. Each of the projects follows the same proven format and includes instructions for the teacher, a Student Guide, and one or more reproducible datasheets and worksheets. They all include the elements needed for a successful individual or group learning experience. This second edition includes new projects and information about technology-based and e-learning strategies. Hands-On Math Projects with Real-Life Applications includes a special Skills Index that identifies the skills emphasized in each project. This book will save you time and help you instill in your students a genuine appreciation for the world of mathematics.

The Official ACT Prep Guide 2021-2022, (Book + 6
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Practice Tests + Bonus Online Content) ACT
2021-04-20 THE OFFICIAL ACT® PREP GUIDE
2021-2022 The comprehensive guide to the
2021-2022 ACT® test, with 6 genuine, full-length
practice tests in print and online. This 2021-2022
guide includes six actual ACT® tests – all of which
contain the optional writing test – that you can use
to practice at your own pace. To help you review
test subjects and improve your understanding, this
guide provides clear explanations for every answer.
You'll also get practical tips for boosting your score
on the English, math, reading, and science tests, as
well as the optional writing test. Additionally, you
can access the six tests online through the access
code provided in the guide. The code also provides
access to 400 online flashcards to help you prepare
for all sections in the ACT® examination. The test's
creators filled this guide with expert advice on how
to both mentally and physically prepare for the
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exam. It will also help you: Review the entire
ACT® test content so you'll know what to expect
on test day Understand the procedures you'll follow
when you're taking the ACT® Prepare for the
types of questions you can expect to find on the test
Adopt test-taking strategies that are right for you
The Official ACT® Prep Guide 2021-2022 is the best
resource to prepare you for test day. By using this
guide you can feel comfortable that you're prepared
to do your best!

**PISA Take the Test Sample Questions from OECD's
PISA Assessments** OECD 2009-02-02 This book
presents all the publicly available questions from
the PISA surveys. Some of these questions were
used in the PISA 2000, 2003 and 2006 surveys and
others were used in developing and trying out the
assessment.

Key Maths GCSE - Teacher File Intermediate I

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Maths Mate – 5 Madhubun 1. It is a series of eight textbooks for Classes 1 to 8 that conforms to the vision of National Curriculum Framework and is written in accordance with the latest syllabus of the CBSE. 2. Learning Objectives: Lists well what a learner will know and be able to do after studying the chapter. 3. Let's Recall: Refreshes the concepts learnt in the form of a revision exercise to brush up the concepts taught in previous chapters or grades. 4. Let's Begin: Introduction to the chapter. 5. My Notes: Tips to help the learner remember the important points/formulae taught in the chapter. 6. Let's Try: Simple straight forward questions for quick practice while studying any topic based on the first two levels of Bloom's Taxonomy – Knowledge and Understanding. 7. Error Alarm: Common mistakes which learners commit often along with the correct way of doing the same. 8. Know More: Additional information for the learners

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relating to the concepts learnt in the chapter 9. Maths in My Life includes questions relating Maths to daily life and which can help relate the topic with the environment (life) around us. 10. Tricky Maths: Challenge questions to help the learners build thinking skills and reasoning skills by solving tricky questions. 11. Project Work: Projects which can help learners connect Math with our daily life or that take the concepts learnt to a new level. 12. Concept Map: Summary points to list the important concepts learnt in the chapter in a crisp form. 13. Test Zone: Revision exercise of the concepts learnt in the chapter. This includes both objective and subjective type of questions. 14. Mental Maths: Maths problems for performing faster calculations mentally. 15. Maths Master: Involves deep critical thinking of learners about any topic, concept, relation, fact or anything related to that chapter.

May have open ended questions or extension of the

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topic. 16. Application in Real-Life: Every chapter in each book also explains how and where it is used in daily life. 17. In the Lab: Math lab activities for helping the learners understand the concepts learnt through hands-on experience. 18. Practice Zone: Chapter-wise practice sheets includes subjective questions for additional practice which are a part of each book.

McGraw-Hill's PMP Certification Mathematics

Vidya Subramanian 2010-01-25 Master the mathematics of project management! With McGraw-Hill's PMP® Certification Mathematics, you have what you need to ace the toughest area of the Project Management Professional (PMP) certification test—math and statistics. The book provides in-depth descriptions of every math concept covered on the exam, along with all relevant calculations and practical problem-solving strategies. Complete with sample questions and

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step-by-step solutions, McGraw-Hill's PMP® Certification Mathematics helps you build a solid foundation in the subject—whether you're planning to take the test or a practicing professional looking to refresh your skills. Target Your Studying —Focuses strictly on the critical math concepts and questions “Experience” the Test —CD-ROM provides on-screen practice in the actual test format Assess Your Performance —Explains what you got right and wrong . . . and why Avoid Mistakes —Describes the most common errors—and how to avoid them Stay Up to Date —Aligns with the latest PMBOK (Project Management Body of Knowledge) throughout

Understanding Mathematics – 6 C. Sailaja, Smita Ratish, Lata Wishram Understanding Mathematics is a carefully written series of mathematics to help students encourage the study of mathematics in the best interactive form. It contains ample practice

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material, attractive illustrations and real-life examples for the students to relate the topics with their everyday life. Special care has been taken while teaching topics like geometry and probability to the students. Keeping in mind the development status and comprehension level of students, the text has been presented in a well graded manner.

Progress in Mathematics Book For class 5 Rashmi

Katyal 2020-04-01 Goyal Brothers Prakashan

Exploring Mathematics Book for Class 4 Rashmi

Katyal 2020-04-15 Goyal Brothers Prakashan

Maths Mate – 7 NEW Madhubun 1. It is a series of eight textbooks for Classes 1 to 8 that conforms to the vision of National Curriculum Framework and is written in accordance with the latest syllabus of the CBSE. 2. Learning Objectives: Lists well what a learner will know and be able to do after studying the chapter. 3. Let's Recall: Refreshes the concepts learnt in the form of a revision exercise to brush up

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the concepts taught in previous chapters or grades.

4. Let's Begin: Introduction to the chapter. 5. My

Notes: Tips to help the learner remember the

important points/formulae taught in the chapter. 6.

Let's Try: Simple straight forward questions for quick practice while studying any topic based on the first two levels of Bloom's Taxonomy

—Knowledge and Understanding. 7. Error Alarm:

Common mistakes which learners commit often along with the correct way of doing the same. 8.

Know More: Additional information for the learners relating to the concepts learnt in the chapter 9.

Maths in My Life includes questions relating Maths to daily life and which can help relate the topic with the environment (life) around us. 10. Tricky

Maths: Challenge questions to help the learners build thinking skills and reasoning skills by solving tricky questions. 11. Project Work: Projects which

can help learners connect Math with our daily life.

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or that take the concepts learnt to a new level. 12. Concept Map: Summary points to list the important concepts learnt in the chapter in a crisp form. 13. Test Zone: Revision exercise of the concepts learnt in the chapter. This includes both objective and subjective type of questions. 14. Mental Maths: Maths problems for performing faster calculations mentally. 15. Maths Master: Involves deep critical thinking of learners about any topic, concept, relation, fact or anything related to that chapter. May have open ended questions or extension of the topic. 16. Application in Real-Life: Every chapter in each book also explains how and where it is used in daily life. 17. In the Lab: Math lab activities for helping the learners understand the concepts learnt through hands-on experience. 18. Practice Zone: Chapter-wise practice sheets includes subjective questions for additional practice which are a part of each book.

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Progress in Mathematics Book for Class 2 Rashmi Katyal 2020-04-01 Goyal Brothers Prakashan
Excel Senior High School Studies of Religion Louise Fleming 2001

Learning to Teach Mathematics in the Secondary School Sue Johnston-Wilder 2016-09-13 Learning to Teach Mathematics in the Secondary School combines theory and practice to present a broad introduction to the opportunities and challenges of teaching mathematics in the secondary school classroom. This fourth edition has been fully updated to reflect the latest changes to the curriculum and research in the field, taking into account key developments in teacher training and education, including examinations and assessment. Written specifically with the new and student teacher in mind, the book covers a wide range of issues related to the teaching of mathematics, such as: why we teach mathematics the place of

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mathematics in the National Curriculum planning, teaching and assessing for mathematics learning how to communicate mathematically using digital technology to advance mathematical learning working with students with special educational needs post-16 teaching the importance of professional development the affective dimension when learning mathematics, including motivation, confidence and resilience Already a major text for many university teaching courses, this revised edition features a glossary of useful terms and carefully designed tasks to prompt critical reflection and support thinking and writing up to Masters Level. Issues of professional development are also examined, as well as a range of teaching approaches and styles from whole-class strategies to personalised learning, helping you to make the most of school experience, during your training and beyond.

Designed for use as a core textbook, Learning to

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Teach Mathematics in the Secondary School provides essential guidance and advice for all those who aspire to be effective mathematics teachers. McGraw-Hill's PMP Certification Mathematics with CD-ROM Ravi Ramachandran 2010-02-25 Master the mathematics of project management! With McGraw-Hill's PMP® Certification Mathematics, you have what you need to ace the toughest area of the Project Management Professional (PMP) certification test—math and statistics. The book provides in-depth descriptions of every math concept covered on the exam, along with all relevant calculations and practical problem-solving strategies. Complete with sample questions and step-by-step solutions, McGraw-Hill's PMP® Certification Mathematics helps you build a solid foundation in the subject—whether you're planning to take the test or a practicing professional looking to refresh your skills. Target Your Studying. —Focuses

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strictly on the critical math concepts and questions
“Experience” the Test —CD-ROM provides on-
screen practice in the actual test format Assess Your
Performance —Explains what you got right and
wrong . . . and why Avoid Mistakes —Describes the
most common errors—and how to avoid them Stay
Up to Date —Aligns with the latest PMBOK
(Project Management Body of Knowledge)
throughout

Maths Mate – 8 NEW Madhubun 1. It is a series of
eight textbooks for Classes 1 to 8 that conforms to
the vision of National Curriculum Framework and
is written in accordance with the latest syllabus of
the CBSE. 2. Learning Objectives: Lists well what a
learner will know and be able to do after studying
the chapter. 3. Let’s Recall: Refreshes the concepts
learnt in the form of a revision exercise to brush up
the concepts taught in previous chapters or grades.
4. Let’s Begin: Introduction to the chapter. 5. My

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Notes: Tips to help the learner remember the
important points/formulae taught in the chapter. 6.
Let’s Try: Simple straight forward questions for
quick practice while studying any topic based on
the first two levels of Bloom’s Taxonomy
—Knowledge and Understanding. 7. Error Alarm:
Common mistakes which learners commit often
along with the correct way of doing the same. 8.
Know More: Additional information for the learners
relating to the concepts learnt in the chapter 9.
Maths in My Life includes questions relating Maths
to daily life and which can help relate the topic
with the environment (life) around us. 10. Tricky
Maths: Challenge questions to help the learners
build thinking skills and reasoning skills by solving
tricky questions. 11. Project Work: Projects which
can help learners connect Math with our daily life
or that take the concepts learnt to a new level. 12.
Concept Map: Summary points to list the important

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concepts learnt in the chapter in a crisp form. 13. Test Zone: Revision exercise of the concepts learnt in the chapter. This includes both objective and subjective type of questions. 14. Mental Maths: Maths problems for performing faster calculations mentally. 15. Maths Master: Involves deep critical thinking of learners about any topic, concept, relation, fact or anything related to that chapter. May have open ended questions or extension of the topic. 16. Application in Real-Life: Every chapter in each book also explains how and where it is used in daily life. 17. In the Lab: Math lab activities for helping the learners understand the concepts learnt through hands-on experience. 18. Practice Zone: Chapter-wise practice sheets includes subjective questions for additional practice which are a part of each book.

Design and Technology Deborah Trevallion 2003
Engineering Studies Peter Metcalfe 2006 This book
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covers Preliminary Engineering Studies course for Year 11 students in NSW.

Exploring Mathematics Book for Class 1 Rashmi Katyals 2020-04-13 Goyal Brothers Prakashan
Maths Mate – 6 NEW Madhubun 1. It is a series of eight textbooks for Classes 1 to 8 that conforms to the vision of National Curriculum Framework and is written in accordance with the latest syllabus of the CBSE. 2. Learning Objectives: Lists well what a learner will know and be able to do after studying the chapter. 3. Let's Recall: Refreshes the concepts learnt in the form of a revision exercise to brush up the concepts taught in previous chapters or grades. 4. Let's Begin: Introduction to the chapter. 5. My Notes: Tips to help the learner remember the important points/formulae taught in the chapter. 6. Let's Try: Simple straight forward questions for quick practice while studying any topic based on the first two levels of Bloom's Taxonomy.

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—Knowledge and Understanding. 7. Error Alarm: Common mistakes which learners commit often along with the correct way of doing the same. 8. Know More: Additional information for the learners relating to the concepts learnt in the chapter 9. Maths in My Life includes questions relating Maths to daily life and which can help relate the topic with the environment (life) around us. 10. Tricky Maths: Challenge questions to help the learners build thinking skills and reasoning skills by solving tricky questions. 11. Project Work: Projects which can help learners connect Math with our daily life or that take the concepts learnt to a new level. 12. Concept Map: Summary points to list the important concepts learnt in the chapter in a crisp form. 13. Test Zone: Revision exercise of the concepts learnt in the chapter. This includes both objective and subjective type of questions. 14. Mental Maths: Maths problems for performing faster calculations

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mentally. 15. Maths Master: Involves deep critical thinking of learners about any topic, concept, relation, fact or anything related to that chapter. May have open ended questions or extension of the topic. 16. Application in Real-Life: Every chapter in each book also explains how and where it is used in daily life. 17. In the Lab: Math lab activities for helping the learners understand the concepts learnt through hands-on experience. 18. Practice Zone: Chapter-wise practice sheets includes subjective questions for additional practice which are a part of each book.

Everyday Mathematics: Teacher's reference manual (Gr. 4-6) University of Chicago. School Mathematics Project 2007 The Teacher's Lesson Guide provides easy-to-follow lessons organized by instructional unit, as well as built-in mathematical content support. Lessons include planning and assessment tips and multilevel differentiation strategies for all

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learners. This English/Spanish Edition provides dual language support.

Driven by Data Paul Bambrick-Santoyo 2010-04-12

Offers a practical guide for improving schools dramatically that will enable all students from all backgrounds to achieve at high levels. Includes assessment forms, an index, and a DVD.

ISC Class XII - Mathematics Sample Paper Book / 12 +1 Sample Paper / According to the latest syllabus prescribed by CISCE Suhail Ahmad 2022-11-01 •

Best Selling Book in English Edition for Class 12

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Papers (For The Upcoming Exam). • Get high

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grades in your exam with the help of this book.

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Educart CBSE Maths Basic Sample Question Papers

For Class 10 (For March 2020 Exam) Education

Experts 2019-11-20 NEW VERSION: Available now based on the 20th September 2019 CBSE

Sample Paper. This Maths (Basic) book is extra special as it was prepared by a CBSE author who knows about CBSE markings, official paper setting and CBSE Class 10th Exam patterns more than any other CBSE expert in the country. We were lucky to have him prepare the papers of this Maths book.

It's been bought by more than 20,000+ students since it came out in October 2019 and is our best-seller already. This Book Covers the following: - 10 Practice Papers (solved) - 4 Self-assessment papers - CBSE September 2019 Sample Paper - CBSE March 2019 Board Paper, (solved by topper) - CBSE 2018

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Topper Answer Sheet Extra value items Added in this Book: - Utilising 15 minute reading time just before the exam (by CBSE topper) - Structuring your Maths Exam 3 hours smartly (by CBSE Markers) - 2020 marking scheme points (value points) underlined in each sample paper solution (CBSE markers look for these key points in your answers to allot full Marks). - The geometry section diagrams are accurately drawn to clear your understanding of all kinds of geometry questions that can appear in the upcoming February 2020 exam. A must buy book as vouched by many experts in Mathematics!

Me n Mine-Mathematics- Term-2 Saraswati Experts
A text book on Maths

Excel Senior High School Peter Metcalfe 2004 This book contains coverage of the HSC Modules of the HSC Engineering Studies course, as well as material relevant to Year 12 students of similar courses in

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other States, such as the Engineering Technology course in Queensland. (From back cover).

Building on the Past to Prepare for the Future
Janina Morska 2022-09-01 Abstract of Book This volume contains the papers presented at the International Conference Building on the Past to Prepare for the Future held from August 8-13, 2022, in King's College, Cambridge, UK. It was the 16th conference organised by The Mathematics Education for the Future Project - an international educational and philanthropic project founded in 1986 and dedicated to innovation in mathematics, statistics, science and computer education world wide. Contents List of Papers and Workshop Summaries Fouze Abu Qouder & Miriam Amit The Ethnomathematics of the Bedouin - An Innovative Approach of Integrating Socio Cultural Elements into Mathematics Education

<https://doi.org/10.37626/GA9783959872188.0.001>
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First page: 1 Last page: 6 Abstract Our study attempted to address young Bedouin (desert tribes) students' persistent difficulties with mathematics by integrating ethnomathematics into a standard curriculum. First, we conducted extensive interviews w 35 Bedouin elders and women to identify: 1. The mathematical elements of their daily lives- particularly traditional units of length and weight, 2. The geometrical shapes in Bedouin women's traditional dress embroidery. Then we combined these with the standard curriculum to make an integrated 90 hours 7-8th grade teaching units that were implemented in Bedouin schools and in the Kidumatica Math Club for Excellent Students. Comparisons between the experimental groups (186) and the control group (62) showed that studying by the integrated curriculum improved:1.The cognitive aspects of the students 2.The affective aspects. Key words: Bedouin

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Cultures, ethnomathematics.

=====

===== Nadine Adams & Clinton

Hayes Why Everyone should know Statistics!

<https://doi.org/10.37626/GA9783959872188.0.002>

First page: 7 Last page: 11 Abstract “Decision is the central intellectual activity in our everyday lives” and statistics is central to these activities (Longford, 2021, p. xi). The ability to manipulate and interpret data is an important component in decision making. A misunderstanding or poor grasp of data distributions and statistical methods can lead to assumptions that are not accurate. When these inaccurate assumptions are presented as factual to decision makers also possessing little or no statistical knowledge, poor decisions can be made. This paper investigates how an interpretation of statistics played a role the decision to remove multiple-choice questions from invigilated examinations at a

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regional Australian university. The case is further argued that it is important for everyone to have a basic understanding of statistics.

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Anita N. Alexander The Perspectives of Effective Teaching and Learning of Current Undergraduate and Graduate Mathematics Students

<https://doi.org/10.37626/GA9783959872188.0.003>

First page: 12 Last page: 17 Abstract Some mathematics professors engage their students in discourse and explorations to promote a deep understanding of critical concepts. Still, lecture remains the norm in mathematics courses according to current mathematics students' survey responses (Mostly Lecture 52%; Lecture & Discussions 35%; N = 89). Students were asked the best way for them to learn mathematics, whether their career plans are teaching related (Teaching Related: Yes 22%; Not

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Sure 36%; No 42%), as well as what they enjoy and want to change about their mathematics courses. Students requested "more discussions, and more questions to solve in class," and described lecture as "an unacceptable way to teach," and that "it is the worst way to learn." Students' perspectives on effective teaching and learning are critical for their continued passion to pursue STEM related fields, rather than stating that "I do not love mathematics anymore."

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Clement Ayarebilla Ali & Ernest Kofi Davis Applications of Basketry to Geometric Tessellations

<https://doi.org/10.37626/GA9783959872188.0.004>

First page: 18 Last page: 23 Abstract We present applications of basketry to geometric tessellation in the primary school mathematics. Even though there are various forms of tessellations, we present

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three regular and Archimedean tessellations for conceptual analysis of the geometric concepts. With a case study design of 15 pupils through interviews and observations, the findings show that pupils can apply baskets to learn geometric tessellations. It was there recommended that baskets be used to extend learning as they play, game and fun.

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===== Nurten Alpaslan & Emre Alpaslan
Mathematics for Everybody

<https://doi.org/10.37626/GA9783959872188.0.005>

First page: 24 Last page: 25

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===== Cynthia Oropesa Anhalt,
Ricardo Cortez, Brynja Kohler & Will Tidwell
Interrogation of Social Justice Contexts in
Mathematical Modeling: The Use of Simulations of
Practice in the Mathematical Preparation of
Teachers

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<https://doi.org/10.37626/GA9783959872188.0.006>
First page: 26 Last page: 31 Abstract Research in prospective teachers' development of mathematical modeling knowledge for teaching is gaining momentum. The Mathematics of Doing, Understanding, Learning, and Educating for Secondary Students [MODULE(S2)]* project developed a curriculum in modeling for teacher education that includes simulations of practice, in which prospective teachers reflect on and plan a discussion around student thinking, their models, and the contextualization of their results. We present an analysis of prospective teachers' modeling work on the decreasing area of Indigenous reservation land in the U.S., and a simulation of practice which explores different methods for finding the area of land in connection to the injustice deeply rooted in the treatment of Indigenous people. This problem explores a critical

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social issue and calls for explicit attention to pedagogical knowledge in structuring discussions around the contextualization of the mathematical results.

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===== Takako Aoki & Shin

Watanabe Find out Mathematics on a Football:

Making a football with paper

<https://doi.org/10.37626/GA9783959872188.0.007>

First page: 32 Last page: 34 Abstract We are aiming

for a workshop method as a way to teach mathematics in future school education. It is important to cooperate with each other and understand mathematics. In this workshop, we aim to discover the mathematics hidden in the footballs we handle every day. As an aid to thinking, I would like to make football by paper first and learn mathematics while looking at concrete things. You need 20 equilateral triangles. A regular hexagon is

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made from this equilateral triangle, and a regular pentagon uses the method of making a hole. In particular, pay attention to the four-color problem in mathematics, make sure that the colours of adjacent regular hexagons are different, and use three colours (red, green, yellow). For example, in a football, how many equilateral triangles of each colour are used is one of the issues. I am looking forward to holding a workshop to see what kind of problems there are. Key words: football Introduction with paper, the truncated icosahedron, the color coding of the three colors, Euler's polyhedral formula

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===== Sarah Bansilal Analysing the

Demands of an Assessment in a Geometry

Pedagogic Content Knowledge Module

<https://doi.org/10.37626/GA9783959872188.0.008>

First page: 35 Last page: 40 Abstract With the onset

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of the pandemic, universities were forced to move to online platforms for teaching and for assessments. In this paper, I reflect on the use of multiple-choice questions in a geometry PCK module for pre-service mathematics teachers. The study involves a secondary analysis of the data generated by the responses of 92 students to an assessment consisting of 25 items. The aim of the study was to distinguish between, and if possible, characterise possible levels of demands of the test items. The results suggested that there are four distinct groups of items relating to common content knowledge of early and late high school respectively, PCK related to deductive reasoning skills and critical thinking in an open book setting.

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===== Mike Bedwell Three or Four numbers: A Teacher's Tale

<https://doi.org/10.37626/GA9783959872188.0.009>

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First page: 41 Last page: 43

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===== Esther Billings & Lisa Kasmer Learning Experiences that Support Primary Teacher Candidates' Understanding and Enactment of Core Mathematics Teaching Practices
<https://doi.org/10.37626/GA9783959872188.0.010>

First page: 44 Last page: 49 Abstract In many teacher preparation programs, instruction focuses on learning about strategies and practices for teaching rather than directly enacting and honing these skills (Grossman, Hammerness, & McDonald, 2009): a corepractice approach in teacher education necessitates organizing coursework and fieldwork around practices of the teaching profession while simultaneously providing teacher candidates (TCs) ample opportunities to “practise” by enacting these teaching practices. In this paper, we share our corepractice instructional strategies, along with TC

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work used in our teacher preparation mathematics education courses (prior to student teaching) to engage TCs' understanding and development of their ability to enact core practices, specifically the mathematics teaching practices outlined in National Council of Teachers of Mathematics (NCTM) (2014).

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Victoria Bonaccorso, Joseph DiNapoli & Eileen Murray Promoting Meaningful Conversations among Prospective Mathematics Teachers

<https://doi.org/10.37626/GA9783959872188.0.011>

First page: 50 Last page: 55 Abstract Recent circumstances due to the COVID-19 pandemic and restrictions on entering public schools have created barriers for prospective teachers (PT) to gain valuable exposure to real classrooms. As a result, we have transitioned some teacher preparation from in person experiences to video case study analysis. Our

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research seeks to determine how this transition can foster development of critical teaching skills by infusing a model of powerful teaching with video of real classrooms. Our findings suggest that with online video case analysis PTs were able to advance their discursive conversations to strategic conversations by building on and transforming each other's articulation of proposed teacher moves. This model for PT preparation has the potential to foster more meaningful discourse among participants by providing a space to build on and refine their understanding of mathematics teaching.

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Primo Brandi, Rita Ceppitelli & Anna Salvadori Elementary Dynamic Models: A Strategic Bridge Connecting School and University

<https://doi.org/10.37626/GA9783959872188.0.012>

First page: 56 Last page: 62 Abstract We present an
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innovative educational path thought as a link between High School and University studies. The topic is the introduction to dynamic models (both discrete and continuous) which represent a key tool in a wide range of disciplines: sciences, techniques, economics, life sciences and more.

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===== Simone Brasili & Riccardo Piergallini Introducing Symmetry and Invariance with Magic Squares

<https://doi.org/10.37626/GA9783959872188.0.013>

First page: 63 Last page: 68 Abstract Magic squares are key tools in mathematics teaching. They favor reasoning and creativity in problem-solving. As well, they bring students closer to the history of mathematics. Our work presents the magic squares in a learning progression introducing the symmetry linked with the idea of invariance “sameness in change” early at primary school in Montegranaro

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(Italy). Using the 3x3 magic square and manipulation games, a sample of 101 pupils (8 years) internalizes symmetries, reflections, and rotations associated with the square. The proposed activities provide tools and experience for geometric cognitive processes transferable from magic squares to main geometric shapes. The findings confirm that symmetry linked to the search for invariance is appropriate and accessible for primary school pupils through manipulation games.

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===== Angela Broaddus & Matthew Broaddus Assessing Mathematical Reasoning: Test Less – Explain More

<https://doi.org/10.37626/GA9783959872188.0.014>

First page: 69 Last page: 74 Abstract Mathematics educational researchers have long offered recommendations for effective mathematics teaching, learning, and assessment, yet educators

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still struggle to implement fair and practical assessments that promote engagement and inspire students. This study describes assessments that (1) reduced anxiety, frustration, and rote imitation of procedures; (2) increased accessibility, motivation, and psychological resilience; and (3) improved engagement, strategic competence, self-assessment, and depth of understanding. Writing assignments prompted students to explain their reasoning about problems or their understanding of main ideas. Students revisited assignments in response to feedback and resubmitted them later in the course, which motivated students to deepen their understanding over time. Sample assignments, responses, and lessons learned will be shared.

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Irena Budínová & Jitka Panáčová Children with Reduced Cognitive Effectivity, their Problems and Optimal Way of

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Education

<https://doi.org/10.37626/GA9783959872188.0.015>

First page: 75 Last page: 80 Abstract The contribution deals with children with reduced cognitive efficiency, their specific, and frequent difficulties in learning mathematics in the first years of education. Two examples of children with reduced cognitive efficiency will illustrate the specific ways in which reduced cognitive efficiency can manifest itself in mathematics, how children can be helped to overcome the mathematics curriculum. Problems in learning two basic arithmetic operations will be presented. The differentiation of teaching will be briefly introduced as an effective opportunity to work with these children.

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Gail Burrill Data Science and Mathematical Modeling: Connecting

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Mathematics to the World in which Students Live
<https://doi.org/10.37626/GA9783959872188.0.016>
First page: 81 Last page: 89 Abstract The increasing need for statistical and quantitative thinking and reasoning makes it more important than ever that using mathematics and statistics to make sense of the world should be a central component of schooling. Data have transformed the way we look at the world. Shouldn't this emphasis on data also impact what we teach both in mathematics and statistics? Research suggests that engaging with real data can motivate students, encourage them to take an interest in STEM fields, and allows the interests of diverse communities to be used as opportunities for learning. This paper summarizes the research looking at why connecting mathematics to the world is important for student learning, describes the role of data science and modeling in doing so, and provides examples of opportunities for students

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to interact with the world in which they live and work. "The development of mathematics is intimately interwoven with the progress of civilization,.." (Ebrahim, 2010)
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Gail Burrill & Thomas Dick
Connecting Mathematics to the World: Engaging Students with Data Science
<https://doi.org/10.37626/GA9783959872188.0.017>
First page: 90 Last page: 94 Abstract Mathematics and statistics can be used to describe, explore, and understand this complicated world in which we live. The workshop focus is on several potentially messy, real-world problems from predicting herd immunity, to exploring the quality of life across countries to modeling the change in CO2 levels. Each situation begins with a question and a set of data. The activities are open ended with multiple ways students might develop mathematical and

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statistical models, use technology to analyze the data, and make sense of terms such as herd immunity or vaccine efficacy or to investigate situations such as optimizing resources during a flood.

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===== Elizabeth A. Burroughs & Mary Alice Carlson Fostering Empathy in Mathematics through Mathematical Modeling <https://doi.org/10.37626/GA9783959872188.0.018> First page: 95 Last page: 100 Abstract Modeling, a cyclic process by which mathematicians develop and use mathematical tools to represent, understand, and solve problems, provides learning opportunities for school students. Mathematical modeling situates mathematical problem solving squarely in the middle of everyday experiences. Modeling engenders the habits and dispositions of problem solving and empowers students to identify critical issues important to them, use their mathematical

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tools to address these problems, and view mathematics as a force for societal good.

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===== Bernardo Camou The Adventure of Learning Mathematics and Lakatos's Legacy

<https://doi.org/10.37626/GA9783959872188.0.019> First page: 101 Last page: 104 Abstract Mathematics is normally described as abstract, exact, general and perfect. However, mathematics is a human creation and thus we can ask: How can humans with flaws and defects are able to create something perfect and infallible? Mathematics have its foundations in concrete problems, trials and errors approximations and representations. Learning mathematics is a fascinating trip, back and forth between concrete and abstract, between approximations and accuracy, between particular and general. Our poor representations are the road to conceptualize

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mathematical objects that then, seem to become perfect. In this workshop we will handle polyhedral and work with Euler's Formula, with angular defects and its relation with surface's curvature. In Lakato's book *Proofs and Refutations* the author might have committed a mistake, though his book gives us a brilliant insight about the logic of mathematical discovery.

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===== Carrie Chiappetta,
Christopher Walsh, Annie Smith & Javier Perez
K-12 Schools after the Global Pandemic: How a Regional School District in the United States Accelerated Learning for Students, Teachers & Administrators

<https://doi.org/10.37626/GA9783959872188.0.020>

First page: 105 Last page: 110 Abstract After the global pandemic, Regional School District 15 will start the 2021-2022 school year by accelerating

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learning for students, teachers, and administrators. For teachers, the focus will be on “purposeful planning,” “differentiation,” and “formative assessment” to ensure that all students learn grade level content. For administrators, the focus would be on supporting teachers in these three areas of focus. The Assistant Superintendent, the Mathematics/Science Department Chair, and the elementary and middle school mathematics instructional coaches will share the plan that they have implemented to work with K-12 teachers and administrators to ensure that students were able to learn grade level content even after the interrupted education that occurred during the global pandemic.

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===== Kathleen Cotter Clayton
Fractions of the Future

<https://doi.org/10.37626/GA9783959872188.0.021>

First page: 111 Last page: 116 Abstract Explore the

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simplicity and beauty of fractions of the future with a linear model, not with circle sets. When fractions are approached with this linear perspective, fractions can be easily taught, explored, and applied in daily life. Learn how to ask the right questions to guide your pupils to a solid understanding. Children as young as five can see that $\frac{1}{3}$ is less than $\frac{1}{2}$ and more than $\frac{1}{4}$. They can also see why $\frac{9}{8}$ is more than 1, why $\frac{1}{4}$ plus $\frac{1}{8}$ is $\frac{3}{8}$, and why $\frac{1}{2} \times \frac{1}{2}$ is $\frac{1}{4}$. Fractions are a delight when they are taught the right way. Allow the children to explore the whole picture and relationships within the whole using the linear fraction model. Learn about activities and games to build confidence and develop a deep understanding of fractions. Uncover the joy of fractions!

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Joan A. Cotter Teaching
Primary Mathematics without Counting and Place

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Value with Transparent Number Naming

<https://doi.org/10.37626/GA9783959872188.0.022>

First page: 117 Last page: 122 Abstract Counting - memorizing the sequence and coordinating pointing with recitation - is problematic for many children. Children with poor counting skills often struggle to learn their beginning math with various approaches. Yet, counting is unnecessary. Babies are born with the ability to subitize; that is, to detect quantities at a glance, up to three. By age 3, they can subitize up to five; by age 4 they can subitize up to 10 by grouping in fives, similar to their fingers. After children know the names for quantities 1 to 10, their next step should be place-value starting with temporary transparent number naming. For example, 11 is “ten-1”, 12 is “ten-2”, and 24 is “2-ten-4.” The counting words in Far Asian languages reflect this transparency, enhancing their pupils’ mathematics achievement. Place-value knowledge

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combined with subitizing gives pupils a way to master number combinations.

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===== Celisa Counterman

M.A.T.H. = Making Algebraic Thinking Holistic

<https://doi.org/10.37626/GA9783959872188.0.023>

First page: 123 Last page: 127 Abstract Students in mathematics often need more than just definitions and examples. The first step is leaving their anxiety at the door. Hands-on work engages students by utilizing group learning, discovery, and active learning both with and without technology lessening the fears of math. Faculty members will be given sample activities, rubrics, and sample student work. Special focus on creating Spirolaterals and quilting teach geometric movement and pattern recognition. Puzzles are created with mathematical problems in linear equations, linear inequalities, and compound inequalities bringing

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the focus on skills and historical facts. Faculty members will work in teams to recreate the materials themselves to see where issues in understanding come from. There will be time for both questions and answers.

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===== Scott A. Courtney The Impact of Remote Instruction on Mathematics Teachers' Practices

<https://doi.org/10.37626/GA9783959872188.0.024>

First page: 128 Last page: 133 Abstract The coronavirus pandemic has impacted all aspects of society. As the virus spread across the globe, countries and local communities closed workplaces, moved schools to remote instruction, limited in-person contact, cancelled public gatherings, and restricted travel. At one stage, over 91.3% of students worldwide, from pre-primary through tertiary education, were impacted by school

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closures. In the United States, many institutions continue to provide remote and hybrid learning options throughout the 2021-2022 academic year. Attempts to mitigate Covid-19 through mass remote instruction has provided unique opportunities for researchers to examine the resources teachers utilize to drive and supplement their practices. In this report, I describe remote instruction's ongoing impact on grades 6-12 mathematics teachers and their students in rural area and small-town schools in the Midwestern United States.

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===== Mili Das Building on the Past to Prepare for the Future - Impact of Teaching Skills and Professionalism to Reduce Mathematics Phobia

<https://doi.org/10.37626/GA9783959872188.0.025>

First page: 134 Last page: 138 Abstract In India mathematics is a compulsory subject for the

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primary, upper primary and secondary classes. In secondary school curriculum among the compulsory subjects MATHEMATICS is the most vital subject and at the same time it is the most difficult one as per the learners' opinion as well as the parents. So, the subject is neglected by many students and as a consequence Mathematics Phobia is often developed in the students' mind. There are many more factors which are connected to this growing distaste in learning mathematics like in appropriate curriculum organization, methodology of teaching, teachers' knowledge, assessment techniques [Das,M.2010] and management of classroom environment. The said problem is not a new one but in present teachers' training course special attention is given on it. In this paper author will discuss that how the teaching skills and teachers' professionalism can create a positive environment to motivate students. **Key words: Mathematics**

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Teacher, Learners, Curriculum, Professionalism

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===== Thomas P. Dick Combining
Dynamic Computer Algebra and Geometry to
Illustrate “the most marvelous theorem in
mathematics”

<https://doi.org/10.37626/GA9783959872188.0.026>

First page: 139 Last page: 144 Abstract Dynamic
geometry software (DGS) allows for constructions
and measurements that instantly update when a
virtual geometric figure is manipulated. Likewise,
dynamic computer algebra systems (CAS) enable
symbolic calculations that instantly update when an
expression or equation is altered. Linking geometric
objects to symbolic parameters combines these two
powerful tools together. We will illustrate a unique
feature of “locked” measurement in a special DGS to
create a Steiner ellipse. We then illustrate the use of
a dynamic CAS to create dynamic first and second

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derivative zeroes of a cubic function whose zeroes
can be graphically manipulated. Finally, we will
link a dynamic geometric construction based on
these zeroes to illustrate the Siebeck-Marden
Theorem, an astounding result that has been
justifiably called “the most marvelous theorem in
mathematics.”

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===== Hamide Dogan, Angel
Garcia Contreras & Edith Shear Geometry, Imagery,
and Cognition in Linear Algebra

<https://doi.org/10.37626/GA9783959872188.0.027>

First page: 145 Last page: 150 Abstract This paper
discusses features of five college-level linear algebra
students’ geometric reasoning, revealed on their
interview responses to a set of predetermined
questions from topics relevant to linear
independence ideas. Our qualitative analysis
identified three main themes (Topics). Each theme,

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furthermore, revealed similarities and differences, providing insight into technology's potential effect.

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Ann Dowker, Olivia Cheriton & Rachel Horton Age Differences in Pupils' Attitudes to Mathematics

<https://doi.org/10.37626/GA9783959872188.0.028>

First page: 151 Last page: 156 This study investigated children's and adolescents' attitudes to mathematics, with a particular focus on whether and how these are affected by age and gender. 216 pupils from Years 2, 6, 9 and 12 participated in the study. They were given (1) the Mathematics Attitude and Anxiety' questionnaire (Thomas & Dowker, 2000), which assesses levels of maths anxiety; unhappiness at failure in maths; liking for maths, and self-rating in maths; and (2) the British Abilities Scales Number Skills Test to establish actual mathematics performance. Age had a significant

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effect on both liking for maths and self-rating in maths: older children were lower than younger children in both. Gender had a significant effect on self-rating: boys rated themselves higher than girls, though there was no significant gender difference in mathematical performance. Self-rating, but not anxiety, predicted mathematics performance.

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Alden J. Edson & Elizabeth Difanis Phillips The Potential of Digital Collaborative Environments for Problem-Based Mathematics Curriculum

<https://doi.org/10.37626/GA9783959872188.0.029>

First page: 157 Last page: 162 Abstract In this paper, we present an overview of the design research used to develop a digital collaborative environment with an embedded problem-based curriculum. We then discuss the student and teacher features of the environment that promote inquiry-based learning.

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and teaching.

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===== Belinda P. Edwards

Learning to Teach Mathematics using Virtual Reality Simulations

<https://doi.org/10.37626/GA9783959872188.0.030>

First page: 163 Last page: 168 Abstract Researchers (Lampert, et al., 2013; Zeichner, 2010; Grossman, et al., 2009a) recommend the use of rehearsals in teacher education classrooms to help preservice teachers (PST) bridge theory to practice. Rehearsals enable PSTs to practice teacher moves, such as asking purposeful questioning and engaging students in mathematical discourse during an episode of teaching a lesson (NCTM, 2014). During a rehearsal, the PST's teacher education instructor provides coaching that helps the PST make flexible adjustments to their instruction. Using a phenomenological approach, this research

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investigates the use of Virtual Reality (VR) simulations to support PSTs learning to teach mathematics through rehearsals. The presentation will include samples of PSTs' mathematics teaching episodes with attention to successes, challenges, and lessons learned from the use of VR simulations in teacher education classrooms.

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===== Allison Elowson, Kristen Fye, Gregory Wickliff, Christopher Gordon, Alisa Wickliff, Paul Hunter & David Pugalee Student Research in a Mathematics Enrichment Program
<https://doi.org/10.37626/GA9783959872188.0.031>

First page: 169 Last page: 174 Abstract Increasing emphasis is placed on the development of research skills for students in STEM content areas. As part of a four-week summer enrichment program, 24 high school students participated in a mathematics course highlighting the historical development of

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mathematics through the lens of history and culture. Each student designed and conducted their own research study under the mentorship of instructors with expertise in mathematics, writing and technical communication, and student research. This paper presents a case study of one project selected on the basis of strong performance in meeting course goals. Data demonstrates the mathematical understanding of the student researcher, their scientific literacy and research skills, and their mathematical communication. The student prepared both a paper and a poster to report their research study.

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===== Antonella Fatai Improving
Relational and Disciplinary Competences by
Rondine Method

<https://doi.org/10.37626/GA9783959872188.0.032>

First page: 175 Last page: 180 Abstract The present

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work describes an educational experience, being implemented since 2015, based on the Rondine Method application in mathematics teaching. This experience has involved 135 students from State Schools throughout Italy. The general method was developed by an Italian research team aiming at resolving conflicts in situations of contrast. The goal of the work is highlighting how the care of relationships may be a means for overcoming difficulties in mathematics. Below we describe activities referring to the general principles of active education and of socio-constructivism, which are oriented to train students both in learning by action and participation, and in bringing their own contribution to the whole class work.

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===== Courtney Fox Integrating
Mathematics and Science: A Plan for a High School
Integrated Pre-Calculus and Physics Course

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<https://doi.org/10.37626/GA9783959872188.0.033>

First page: 181 Last page: 185 Abstract This paper explores the integration of mathematics and science as a means to improve learning for high school students. Scholars have acknowledged the benefits of integration for over 50 years, but in the United States we have failed in large measure to adopt an integrative curriculum. This work provides a corrective to this problem by creating a practical curriculum for an integrated Pre-Calculus and Physics course with suggestions for implementation in any school.

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===== Kathy R. Fox Building an Understanding of Family Literacy: Changing Perspectives Regarding Authentic Learning Opportunities in the Home

<https://doi.org/10.37626/GA9783959872188.0.034>

First page: 186 Last page: 191 Abstract Home to

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school engagement has often been a one-way path, with teachers seen as facilitators only. When schools were forced to rapidly switch to virtual instruction, teachers were suddenly entering kitchens, living rooms and other spaces to deliver virtual instruction. Findings from this qualitative study of eleven practicing teachers showed new teaching opportunities through virtual home visits. Doors were literally and figuratively opened as teachers became beneficiaries of cultural and academic practices in the home. Math instruction took on a real-world quality, as teachers were privy to home environments for authentic teaching materials. As schools open and teacher, parent, and caregiver relationships return to a more distant space, these participants described small but significant changes in the way they continued to engage parents and caregivers after the experiences of the virtual home visits.

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===== Grant A. Fraser

Mathematics for Living: A Course that Focuses on Solving Problems in Today's World

<https://doi.org/10.37626/GA9783959872188.0.035>

First page: 192 Last page: 195 Abstract The author has developed and taught a course for University students who are not specializing in mathematics, science, or engineering. In contrast to traditional courses of this type, this course focuses on topics from the real world that students will encounter in later life. The aim of the course is to provide students with mathematical tools that they can use to create meaningful, practical solutions to problems that arise in these topics. Students work individually on projects and present their solutions in class. Other students then critique these solutions. With practice, students develop the skills necessary to analyze more complicated kinds of problems. A

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final project enables students to use their newly acquired techniques to deal with more realistic problems. The author discusses the content of the course and the impact it has had on students.

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===== Toshiakira Fujii Roles of Quasi-variables in the Process of Discovering Mathematical Propositions

<https://doi.org/10.37626/GA9783959872188.0.036>

First page: 196 Last page: 201 Abstract The purpose of this paper is to clarify roles of quasi-variables by focusing on the process of discovering mathematical propositions. For this purpose, the author analyzed the assignment reports of third-year undergraduate students. As a result, the author found that "looking back" is important in the generalization-oriented inquiry process, but it is not enough. It is important to "re-examine" the found matter and its form of expression from the perspective of a new concept.

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In the process of "looking back" and "re-examine", it was confirmed from the description of the metacognitive part of the students that the use of quasi-variables clarified the object of consideration and made it easier to clarify which numbers contributed to the generalization and expansion in what sense.

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===== Ben Galluzzo, Katie Kavanagh, Karen Bliss, Michelle Montgomery & Christopher Musco Math Modelling: Common Pitfalls and Paths for Student Success
<https://doi.org/10.37626/GA9783959872188.0.037>
First page: 202 Last page: 207 Abstract Mathematical modelling refers to the process of creating a mathematical representation of a real-world scenario to make a prediction or provide insight. There is a distinction between applying a formula and the actual creation of a mathematical relationship.

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Approaching open-ended problems can be challenging for students. In this two part workshop, we first share examples of how students can get off-track while creating models, in particular making choices or assumptions that undermine the solution quality. In the second part, we demonstrate how to facilitate authentic math modelling so that students can be creative and innovative in the modelling process while having ownership over their solution. Participants will assess real student modelling solutions from Mathworks Math Modeling Challenge (M3 Challenge), a program of Society for Industrial and Applied Mathematics (SIAM), and discuss ways that they would advise teams towards improvement.

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===== Parker Glynn-Adey & Ami Mamolo Modelling Beauty: Hands-on Experiences in Group Theory

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<https://doi.org/10.37626/GA9783959872188.0.038>

First page: 208 Last page: 213 Abstract In the 19th century, geometric models were valued as tools for exploring complex mathematics. Quartic surfaces and hyperboloids elaborately modelled with plaster gave access to powerful ideas and brought alive wonderful new mathematics. In this workshop, we explore a diverse set of geometric models that capture mathematical beauty and we showcase how they can be used to bring alive wonderful new-for-students mathematics. We discuss the value of these experiences for fostering mathematical ways of being that can help disrupt preconceived notions about a homely, rote and rigid nature of mathematics, and capture some of the visual richness of older mathematical models.

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===== Gerald A. Goldin, Lisa B.

Warner, Roberta Y. Schorr & Daniel Colaneri

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Exploring Prospective Mathematics Teachers' Motivating Desires during Group Problem Solving Activity

<https://doi.org/10.37626/GA9783959872188.0.039>

First page: 214 Last page: 219 Abstract Earlier research has characterized recurrent patterns of cognition, affect, and behavior during in-the-moment mathematical activity. Each pattern, termed an “engagement structure,” is named by a specific motivating desire that evokes it: e.g., Get The Job Done, I’m Really Into This, Value My Culture, etc. This study explores prospective teachers’ motivating desires as they engage in small-group problem solving sessions. Participants were enrolled in courses required for teaching certification at two eastern U.S. state universities. Based on survey, individual interview, and focus group data, we identify the most frequently occurring desires, their perceived importance and

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accompanying emotional feelings. We present and discuss some findings briefly, including the motivating desire to Carry My Weight with a team of peers.

=====

===== John Gordon & Kehinde Emmanuel Adenegan Are Abstract Mathematical Thinkers Born or Can They Be Trained?

<https://doi.org/10.37626/GA9783959872188.0.040>

First page: 220 Last page: 224 Abstract Abstract mathematical thinkers in the fields of pure Mathematics and theoretical computer science have contributed significantly to the body of knowledge that has fundamentally altered the course of human civilization and technological advances. This paper explores whether these thinkers are naturally gifted or if there are pedagogical strategies that can be implemented that will bring about the same outcomes. Keywords: Abstract, critical, thinkers,

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Mathematics

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===== John Gordon Reuniting Exponents and Logarithms: Teaching Exponents, Inverse functions, and Logarithms, as one Cohesive Pedagogical Unit

<https://doi.org/10.37626/GA9783959872188.0.041>

First page: 225 Last page: 230 Abstract Exponents, inverse functions, and logarithms are fundamentally important concepts in almost every branch of technical science. However, they are not taught together as a cohesive, comprehensive, pedagogical unit in many instances. As a result, students lose deep insight into their meaning and applicability. Additionally, particularly in the concept of the inverse function, the richness, and beauty inherent in the concept are reduced to a purely mechanical process. This paper seeks to remedy this situation by outlining a pedagogical strategy that links

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exponents, inverses, and logarithms together in such a manner as to preserve their natural dependence, coherency, and logic. Keywords: Exponents, inverse, functions, logarithms.

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===== Debra Hydorn Infographics to Develop Graphical Literacy

<https://doi.org/10.37626/GA9783959872188.0.042>

First page: 231 Last page: 236 Abstract Tools for easily creating infographics are widely available, both online and through statistics, mathematics, and other programs. Determining the appropriate graphs to produce for different kinds of data is an important skill for students at all levels to learn, as is determining the best graph for a specific audience.

With the increased availability of data comes the increased expectation that researchers in all disciplines can effectively communicate their findings to a wide range of audiences. Experts in

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graphical design have defined aspects of “graphical excellence,” but the effectiveness of graphically portrayed information depends a great deal on the needs and abilities of the intended audience. To create effective graphs, students not only need to be familiar with tools for creating graphs, they also need to be familiar with the communication, cognitive, and aesthetic principles associated with infographic design.

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===== Andrew Izsák
Foregrounding Multiplicative Structure in Essential Calculus Topics

<https://doi.org/10.37626/GA9783959872188.0.043>

First page: 237 Last page: 242 Abstract Approaches to calculus have emphasized limits, derivatives, and integrals, among other topics. Yet, across different approaches, the subject continues to pose significant challenges. The present study reports a new

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approach to calculus that takes multiplicative structure as an equally essential topic that is often overlooked or taken for granted. In an experimental course, 18 college students learned to reason about multiplication understood as coordinated measurement with two different units and proportional relationships understood from the variable-parts perspective. They then worked with piecewise linear functions and step functions to derive key calculus results. A first strand involved division, proportional relationships, slopes of lines, function composition, and the chain rule. A second strand involved multiplication, areas, inversely proportional relationships, and integration by substitution.

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===== Brian L. Johnson & Ioannis Gkigkitzis Interesting Facts about Terminating Decimals

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<https://doi.org/10.37626/GA9783959872188.0.044>
First page: 243 Last page: 248 Abstract The set of rationals is dense in \mathbb{R} . In fact, this is even true for the smaller family of terminating decimals. Unlike density ratios in the physical world, this is an absolute property implying that infinitely many such decimals exist in even the "smallest" intervals we can imagine. However, it is possible to construct this infinite density in an increasing sequence of finite "densities"--starting with the discrete set of integers. While the terminating decimals do not seem to receive as much formal discussion as \mathbb{Z} , \mathbb{Q} and \mathbb{R} , they are an essential part of the mathematics curriculum, from elementary school through college. Keywords: integers, rational numbers, algebra, density.

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===== Iris DeLoach Johnson Exploring a Collection of Approachable, Stimulating

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and Thought-Provoking Problems: Face-to-Face or Virtual? Related or not?
<https://doi.org/10.37626/GA9783959872188.0.045>
First page: 249 Last page: 253 Abstract Students thrive when engaged in solving problems that they find to be approachable, stimulating, and thought-provoking. This workshop includes many such problems with various real-world and contrived contexts. Participants will work in groups to find the solutions as well as identify similarities and contrasts among the problems. We will explore whether there are related mathematical concepts (e.g., algebra, discrete mathematics, geometry) or mathematical processes (reasoning, connecting, communicating, representing, problem-solving, selecting tools and strategies). Many of these problems are taken from resources published broadly for students from ages 11-19+. We will compare our findings and experiences with those of

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school students and discuss use of technology in both face-to-face and online settings: from the past to the future! Keywords: problem-solving, reasoning, communication, collaboration, algebra, representations, Chalk Talk, Thinker-Doer problems

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Gibbs Y. Kanyongo,
Nandini Bhowmick & Erika Williams Structural Equation Modeling: Focus on Confirmatory Factor Analysis

<https://doi.org/10.37626/GA9783959872188.0.046>
First page: 254 Last page: 255 Abstract This workshop will expose participants to the statistical technique of Structural Equation Modeling (SEM), with a focus on confirmatory factor analysis (CFA), using the statistical software AMOS. Structural equation modeling is a multivariate statistical analysis technique that is used to analyze structural relationships. Confirmatory Factor Analysis

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examines whether collected data fit a hypothesized model of what the data are meant to measure. It is the measurement part of SEM, which shows relationships between latent variables and the observed variables.

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===== Anna Khalemsky & Yelena

Stukalin Combining Various Data Mining
Techniques in Binary Classification Teaching
<https://doi.org/10.37626/GA9783959872188.0.047>

First page: 256 Last page: 260 Abstract Binary classification is one of the most common data analytics tasks. It appears in a wide range of applications including finance, sociology, psychology, education, medicine, and public health. In statistical and analytics courses, binary classification is usually handled by logistic regression. Other alternatives, such as decision trees, neural networks, and Naïve Bayes are not

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commonly taught in traditional undergraduate programs. We suggest making these methodologies accessible as alternatives or complementary approaches to binary classification. We treat the teaching of the subject as a dynamic process that involves the understanding of the analytical task, understanding terms and concepts, visualizing, analyzing, interpreting the results, and decision making.

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Richard Kitchen
Leveraging Pólya's Heuristic to Support
Mathematical Reasoning and Language
Development

<https://doi.org/10.37626/GA9783959872188.0.048>
First page: 261 Last page: 266 Abstract An iteration of an instructional framework designed to provide emergent bilinguals (EBs) with opportunities to simultaneously engage in mathematical reasoning

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and learn the language of mathematics is illustrated in this paper. The “Discursive Mathematics Framework” (DMF) builds on Pólya’s iconic problem-solving heuristic by integrating research-based “language practices” and essential teaching practices. Videotapes and student work from problem solving lessons were examined using grounded theory methodology to illustrate the development of the DMF. Theoretically, this study contributes to the literature by providing explicit examples of how practices that promote mathematical reasoning and the learning of the language of mathematics can be taught concurrently during problem solving lessons.

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===== Sergiy Klymchuk An
Innovative Way of Teaching and Assessing Critical
Thinking in Mathematics

<https://doi.org/10.37626/GA9783959872188.0.049>

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First page: 267 Last page: 272 Abstract This paper deals with the use of deliberately misleading mathematics questions in teaching and assessment as an innovative pedagogical strategy. The intention of using such questions is to enhance students’ critical thinking. Critical thinking is understood here as “examining, questioning, evaluating, and challenging taken-for-granted assumptions about issues and practices” as defined by the New Zealand Ministry of Education. The study is based on a survey of 82 secondary school mathematics teachers who attended introductory workshops on the suggested pedagogical strategy at their regional conferences. Although the vast majority of the participants (96%) agreed to use such strategy in teaching, only 63% percent of the participants were willing to use it in assesement. Teachers’ attitudes are analysed in the paper. Key words: critical thinking, assesement, school mathematics teachers.

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===== Allison M. Kroesch &
Albert Otto Magic Throughout the Years
<https://doi.org/10.37626/GA9783959872188.0.050>
First page: 273 Last page: 276 Abstract Too often
teachers use the word “trick” in their mathematics
lessons. There are no tricks in mathematics, but
there are explanations for what appears to be a trick.
Throughout this paper, we will address this history
of magic, including the history of playing cards.

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===== Aradhana Kumari Do not
Teach the Symbols in Mathematics, Teach the
Meaning of the Symbols
<https://doi.org/10.37626/GA9783959872188.0.051>
First page: 277 Last page: 282 Abstract Unnecessary
use of symbols in introducing ideas in mathematics
makes it difficult to learn. From a student's
perspective, these symbols are the hurdle for them

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to understand the concepts/ideas in mathematics.
One example is when we ask students the
following: What is the meaning of the square root
of a number, often their reply is the symbol $\sqrt{\quad}$. This
shows that they did not understand the actual
meaning of the square root of a number, which is
the number raised to power one-half. I will present
many examples and show how we can avoid using
unnecessary symbols and teach the ideas and
concepts in mathematics.

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===== Sebastian Kuntze, Marita
Friesen, Jens Krummenauer, Karen Skilling,
Ceneida Fernandez, Pere Ivars, Salvador Llinares,
Libuše Samkova & Lulu Healy Support for
Mathematics Teachers through Representations of
Practice - Vignette-based Approaches in the Project
coReflect@maths

<https://doi.org/10.37626/GA9783959872188.0.052>
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First page: 283 Last page: 288 Abstract Teachers' analysis of vignettes can be a key for connecting specific classroom situations with mathematics education theories. As vignettes are representations of practice with relevance for professional requirements of the mathematics classroom, vignettes also represent or portray meaningful theoretical elements. The use of vignettes in pre-service and in-service teacher professional development needs, however, conceptual and evidencebased exploration. Building on prior work with video, text, and cartoon vignettes, the project coReflect@maths aims at exploring the potentials of vignette-based work both for supporting professional learning and for research into aspects of mathematics teachers' expertise. Key aspects of the project work will be presented.

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===== Barbara H. Leitherer,

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Pankaj R. Dwarka, Entela K. Xhane & Jignasa R. Rami Undergraduate Research in a 2-Year College: Climate Change, Global Learning, Process and Observations

<https://doi.org/10.37626/GA9783959872188.0.053>

First page: 289 Last page: 294 Abstract In order to thrive and be successful in an increasingly interconnected world, 21st century students require multiple opportunities to engage with global learning (Landorf et al., 2019). Mathematics faculty guided 2-year college honors students in the US through an independent study analyzing real-world global climate change data supplied by the World Wildlife Fund (WWF). This proposal will elaborate in depth about the undergraduate research process, lessons learned, and observations made. Presenters will reflect on strategies used to support both collaborative and independent learning; how students increased their awareness of climate

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change as a global problem; how this contributed to students' ownership, success and enhancement in undergraduate research leading to preparedness for further education and a successful career in science, technology, engineering, and mathematics.

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Hadas Levi Gamlieli, Alon Pinto & Boris Koichu Secondary-Tertiary Transition and Effective Ways of Coping with it: A Perspective of Lecturers

<https://doi.org/10.37626/GA9783959872188.0.054>

First page: 295 Last page: 300 Abstract The secondary-tertiary transition (STT) in mathematics education is a longstanding concern. This study explores university mathematics lecturers' perspectives on the challenges underlying STT and on the effectiveness of university-level coping measures currently employed. The analysis of 311 responses to an international survey suggests that

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there is considerable variability regarding the prevalent perspectives on STT among university lecturers. While most respondents recognized school-related factors, the coping measures they recommended were mainly university-related. The findings stress the need to improve communication, both between university mathematics lecturers and the school mathematics education community, and across universities, for promoting comprehensive initiatives to address STT.

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Sigal Levy & Yelena Stukalin Introducing Main Statistical Concepts to Non-statisticians

<https://doi.org/10.37626/GA9783959872188.0.055>

First page: 301 Last page: 303 Abstract In this paper we present and discuss the results of an academic open-end mid-term statistics exam given to high-school teachers qualifying to teach Mathematics at a

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matriculation-exam level. The exam focused mainly on defining and understanding key terms and concepts in statistical inference. The purpose of this study is to identify what questions would be good predictors of the overall score, thus indicating a good understanding of statistics. Item analysis showed that the ability to properly define a parameter, state research hypotheses and interpret the findings were more inclined to do well in the exam. Keywords: Statistical concepts, teaching statistics, non-statisticians

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===== Nicole Lewis, Ryan
Andrew Nivens, Jamie Price, Jennifer Price &
Anant Godbole Pandemic-Driven Mathematical
Initiatives within the East Tennessee State
University Center of STEM Education

<https://doi.org/10.37626/GA9783959872188.0.056>

First page: 304 Last page: 309 Abstract We describe

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three Mathematics Education initiatives launched as a result of the global pandemic. (i) The Eastman-funded MathElites professional development (PD) program for K-8 teachers was offered online. Teachers were vastly more involved due to their greater autonomy. Old outcomes and those from 2020 will be compared. (ii) ETSU's Governor's School, which offers high school students Statistics and Biology college courses, went online too, and we used Columbia University Virology lessons and Covid19 data sets to make the courses more engaging to students. Student projects were assessed to be of a higher quality than in years past. (iii) With Niswonger Foundation support, we have launched a PD thrust for teachers in 2021, in the new areas of Epidemiology, Artificial Intelligence, and Statistics-with-R.

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===== Po-Hung Liu Students'
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Perceptions of Paradoxes of the Infinity

<https://doi.org/10.37626/GA9783959872188.0.057>

First page: 310 Last page: 315 Abstract Infinity is a significant element for understanding calculus, yet studies consistently suggest that its counter-intuitive nature confused college students. The purpose of this study was to investigate Taiwanese college students' perceptions of paradoxes of the infinity and observe how their perspectives shifted back and forth while facing contradictory facts. It was found the 1-1 correspondence was the most used criterion for comparing the cardinality of infinite sets, which is somewhat different from previous studies, and students' reasoning on Zeno's paradoxes was feeble. The study suggests future research of this line should pay attention to the dialectical process of students' discourse to detect their core beliefs about the infinity.

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===== Hong Lu & Xin Chen The Relationship between Teacher-student Relationship, Interest, Self-efficacy and Mathematics Achievement – Does Gender Play a Role in it?

<https://doi.org/10.37626/GA9783959872188.0.058>

First page: 316 Last page: 321 Abstract This study compared the mechanism by which the teacher-student relationship (TSR) affects mathematics achievement in different gender groups through interest and self-efficacy in mathematics. The results suggest that (1) in both samples, TSR positively predicted interest and self-efficacy, interest positively predicted self-efficacy, and self-efficacy in turn positively predicted mathematics achievement; (2) Gender differences were also detected; The positive relationships of TSR to self-efficacy, and interest to self-efficacy, were stronger among the male than the female students. Overall, the findings confirm that TSR have an important

Professional mathematical modelling is an important foundation for modern, technology-based societies. We are all significantly influenced by the results of mathematical modelling. The decisions for lock down, masks and travel restrictions in connection with Corona are a current example. This article drafts what we as teachers & researchers can learn about successful mathematical modelling from professional working mathematicians who are using & applying mathematics in the natural sciences, technology development, medicine, economics, social and humanities research & practice, consultancy for politics, the financial world & other economic sectors). The background for this article is my research on mathematics as a technology, its acceptance as a concept and ways of technology transfer, as well as decades of experience with colleagues from industrial mathematics (<https://www.indmath.uni-linz.ac.at/>) and the RISC

(<https://www.jku.at/institutfuer-symbolisches-rechnen-risc/anwendungen/risc-software-gmbh/>) who started their work here in Linz a long time ago. As a co-founder and co-organizer, I organized and enjoyed many lectures on mathematics and society, industrial mathematics, etc. at the Johannes Kepler Symposium

(<https://www.numa.unilinz.ac.at/JKS/2020/>)

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Jodelle S. W. Magner & Susan McMillen Making Word Problems Accessible to All: Innovating through Meaningful Models <https://doi.org/10.37626/GA9783959872188.0.061>
First page: 331 Last page: 332 Abstract Working with a large urban district over 14 years of Mathematics Science Partnership [MSP] grants, over 500 teachers of mathematics, special education teachers, mathematics coaches and administrators have come together to create engaging mathematics

within grade 3 through 12 classrooms. Workshop participants will engage with an innovative use of a mathematical model and learn how it makes mathematics more accessible to students at all levels, especially to English Language Learners. Workshop participants will experience the use of the model in a variety of problem-solving contexts. Obstacles to teachers adopting these materials to use within their instruction and strategies used to overcome these challenges will be discussed.

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===== Rafael Alberto Méndez-Romero & María Angélica Suavita-Ramírez The mINNGa Labs: an Initiative of the Universidad del Rosario to Strengthen STEM Skills, Social Sensitivity and Youth Empowerment in Colombia <https://doi.org/10.37626/GA9783959872188.0.062>
First page: 333 Last page: 337 Abstract The challenge of educating the generation of the digital

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age leads us to resort to pedagogical innovations that are sensitive, empathetic, analytical and multidisciplinary in nature. Additionally, these new student communities are characterized by appropriating causes, mobilize, manifest and are genuinely curious, which confronts us as educators with a greater and fascinating challenge. On the other hand, the historical moment of Colombia forces us to seek the unity of the country and generate a sum of forces from the specific talents of the people in the regions, to solve, as a body, the emerging needs of the moment. In this article we show a technological pedagogical innovation designed at the Universidad del Rosario, which is based on strengthening STEM skills and youth empowerment through the use of our mINNGa labs, a version of a living laboratory as a social an open innovation.

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===== Jennifer Missen A Process
for Updating Mathematics Teaching for 21st
Century Students

<https://doi.org/10.37626/GA9783959872188.0.063>

First page: 338 Last page: 343 Abstract It is inevitable and necessary that the curriculum, pedagogy, and school and classroom structures for the teaching of Mathematics will continue to change over the next 30 years. However, teachers are time poor, there are more and more who are teaching Mathematics when it is not their primary content area, and who may have knowledge of Mathematics but not the current pedagogical knowledge. Early career teachers need support in building a portfolio of tools and resources that work for them and their students. Experienced, traditional teachers are more comfortable with direct teaching and mastery practice and, understandably, are resistant to change. Inquiry

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based teaching and collaborative strategies, differentiated and tailored for the class and its individuals, combined with direct teaching and mastery practice, allow for greater equity and increased preparation of students for the ever-changing workforce. This two part workshop has participants work through the process of transitioning existing, traditional or textbook units of work to flexible, differentiated units with enough detail and resources to support any teacher to walk into the classroom knowing that they will serve all the students well.

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===== Shelby Morge &
Christopher Gordon Using Squeak Etoys to Model
Mathematical Ideas

<https://doi.org/10.37626/GA9783959872188.0.064>

First page: 344 Last page: 349 Abstract Effective
mathematics instruction involves students in

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making sense of mathematical ideas and reasoning mathematically (NCTM, 2014). Unfortunately for many US students in grades 6-8 (ages 10-14), mathematics is a repeat of topics learned in elementary school with an emphasis on computation. For this reason, students start to see mathematics as something that is hard to understand and not enjoyable. In this workshop, we share how a technology tool, Squeak Etoys, was used in a lesson to engage grade 6-8 students in discovering the relationship between the number of sides and the angle measure in regular polygons. We describe a lesson implementation and engage participants in the development of a Squeak Etoys computer model. In addition, conclusions related to mathematics instructional practices are shared. Key words: Squeak Etoys, modeling, problem solving, lesson, geometry, polygons

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Janina Morska New
Methods and Forms of Work during Online Maths Lessons
<https://doi.org/10.37626/GA9783959872188.0.065>
First page: 350 Last page: 353 Abstract In more than 38 years as a mathematics teacher, I have always tried to look for interesting methods and new forms of work. I wondered how to explain the new material to students so that they would understand and be able to use the information in the future. The previous school year has been a huge challenge in the field of distance learning. From October 2020 to May 2021, all teachers in Poland conducted Online lessons. As a result, we had to switch from traditional classroom teaching to online teaching. So I decided to look for appropriate tools and solutions of how to conduct such lessons. Keywords: online learning, distance learning, applications, computer programs, teaching materials, virtual notes, IT tools.

online mathematics.

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===== Patricia S. Moyer-
Packenham Relationships among Semiotic
Representational Transformations and Math
Outcomes in Digital Games

<https://doi.org/10.37626/GA9783959872188.0.066>

First page: 354 Last page: 354

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===== Svenja Müller & Anna
Fath-Streb Risk Literacy in the Context of
Stochastics and Mathematical Education

<https://doi.org/10.37626/GA9783959872188.0.067>

First page: 355 Last page: 360 Abstract The purpose
of this risk literacy study was to explore the ways
of integrating examples of global challenges into
mathematics education. The examples follow an
approach to introduce risk literacy in teacher
education along with a curriculum analysis for

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secondary education in Germany to include risk
literacy within the given requirements and
constraints. Two main examples, microplastic
pollution and extreme events due to climate
change, are analysed in the interdisciplinary context
of global challenges and their understanding of
mathematical knowledge for teaching and learning
stochastics.

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===== M. Estela Navarro Robles
Elementary Teachers Reaching a Quasi-complete
Knowledge of Rational Numbers through an Online
Course

<https://doi.org/10.37626/GA9783959872188.0.068>

First page: 361 Last page: 366 Abstract There is
evidence that most of the Elementary Teachers in
Mexico have various conceptual deficiencies in their
knowledge about rational numbers; however, the
deficiencies were not the same in all the cases. So

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we decided to design a non-traditional-personalized online course, constructed as an adaptative system, in which it was identified if the participant covered each one of the different conceptual approaches in various contexts. When it was identified that a conceptual approach was not covered, interactive materials and videos were presented to them that allowed them to understand what they had not covered. The aim of the course is to enable teachers to reach a quasicomplete conceptualization, whose meaning for us it is to understand the topic from different conceptual approaches in a deep way. This paper presents the structure of one module of the course, one detailed example, and results of the pilot test of this module.

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===== Benita P. Nel Noticing
through Self-reflection by Mathematics Teachers
using Video Stimulated Recall

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<https://doi.org/10.37626/GA9783959872188.0.069>
First page: 367 Last page: 372 Abstract Continuous professional development should be navigated in a teacher's own context, addressing their particular needs where timeous feedback can be of great benefit. However, the major teachers' union in South Africa hindered government officials to enter the classroom, limiting support. Most professional development (PD) initiatives are thus off-site and not always customised to the needs of the individual teacher. In this study, the use of Video-stimulated recall (VSR) was used as a PD tool where self-reflection is foregrounded, reporting on one teacher. The research question was: What did the teachers notice and act upon when VSR was incorporated as a PD amongst mathematics teachers? Through Mason's discipline of noticing the teacher's noticing was investigated. Key Words: Video-stimulated recall, Mathematics education; continuous

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professional development; teacher noticing; in-house setting

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Zanele Ngcobo Evoking School Mathematical Knowledge among Preservice Secondary Mathematics Teachers through Error Analysis

<https://doi.org/10.37626/GA9783959872188.0.070>

First page: 373 Last page: 373 Abstract This article explores how attention to Specialised Content Knowledge (SCK) could evoke the development of school mathematics concepts among pre-service mathematics teachers (PSMTs). At the heart of the repeated debate about the delivery of professional mathematics teacher education curricula has been the reported lack of development of PSMTs knowledge for teaching. However, discussion of what mathematical knowledge for teaching is needed by PSMTs and how it should be developed

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had been uneven. In South Africa, attention to improving the status quo of learners' poor performances in mathematics has been directed toward improving in-service teachers' mathematical knowledge for teaching. However, research has shown that the problem does not only emerge when teachers become practitioners. The problem of low levels performance and of understanding of school mathematics by pre-service teachers has been identified by many studies but is often not addressed during teacher training. This article explores an under-examined strategy for addressing the repeated concerns about the quality of pre-service mathematics teachers' education. It examines how attention to specialised content knowledge (SCK) within a preservice teacher education curriculum could potentially influence deeper quality mathematical knowledge to pre-service mathematics teachers' professionalism. This is

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a qualitative study conducted in 2018 and 2019. Data was generated from (n=61) PSMTs that were enrolled for Bachelor of Education majoring in mathematics. Data was conducted using written task, open ended questionnaires and focus group interviews. The findings from this small-scale study showed that error analysis has the potential to influence the development of SMK. Furthermore, findings suggest that attention to SCK has the potential to evoke school mathematics concepts and the evolution of subject matter knowledge. Based on the findings it is recommended that future research should be conducted to determine the veracity of these conclusions and their generalization to other mathematical topics.

Considering the suggestions made by in literature that the description of knowledge is only valid at the time of the investigation, there is a need of large scale to ascertain the effect of error analysis

toward the development of PSMTs' SMK of other school mathematics topics. Keywords: Error analysis, Pre-service mathematics teachers, Specialised Content Knowledge.

=====
===== Jenna O'Dell & Todd

Frauenholtz Recruiting Mathematics and Mathematics Education Majors to a University
<https://doi.org/10.37626/GA9783959872188.0.071>

First page: 374 Last page: 377 Abstract This paper will present strategies used to recruit students to a four-year university to complete a double major in mathematics and mathematics education, then enter the teaching field. The recruiters are two professors who work in both the Mathematics and Education departments at a university in the United States. The mathematics department has been especially supportive of the initiative as it will double the number of mathematics majors in their programs

for two years from four to nine students. The recruiting included contacting community colleges, professional organizations, word of mouth, the university marketing department, and visits to collegiate mathematics classrooms at the level of calculus and above. This project was supported by The National Science Foundation (NSF) as a Noyce project and will support students financially with full cost of attendance for the final two years of the four-year program.

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===== Elizabeth Oldham & Aibhín Bray Undergraduate Mathematics Students' Reflections on School Mathematics Curricula after a Major Curriculum Change in Ireland

<https://doi.org/10.37626/GA9783959872188.0.072>

First page: 378 Last page: 383 Abstract After decades in which the Irish post-primary (grades 7-12) mathematics curriculum changed incrementally, a

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major innovation project was approved in 2008, and a “reform”-type curriculum was phased in over several years. The project was controversial, and some students developed negative attitudes to the change. This paper examines recent students’ opinions: in particular, the opinions of mathematics undergraduates who had experienced the transition and who took a Mathematics Education module at one Irish university in 2019- 20. They studied old and new curriculum documents and examination papers, and watched videos of reform-type lessons; their reflective comments were posted to a discussion board. Thematic analysis of posts from the 18 (out of 25) students who gave permission for use of their work in research indicates that, by then, these students supported many aspects of the reformed curriculum.

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===== Nick Vincent Otuma
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Mismatch between Spoken Language and Visual Representation of Mathematical Concepts

<https://doi.org/10.37626/GA9783959872188.0.073>

First page: 384 Last page: 388 Abstract This paper examines secondary students' mismatch in meaning between spoken language and visual representation of mathematical concept of a rightangled triangle. Forty-eight students, age 16-17years participated in the case study. Students were asked to select plane figures that matched the descriptions given on each questionnaire item. In group interview, participants were asked to give properties of selected plane figures and draw a diagram representing the same plane figures. The results of this research suggested that many students had similar imperfect conception of a right-angled triangle. Keywords: Mathematical language, conceptual understanding.

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===== Jenny Pange & Alina

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Degteva Project-based Learning in Statistics

<https://doi.org/10.37626/GA9783959872188.0.074>

First page: 389 Last page: 394 Abstract Online teaching process is triggered by the Covid-19, and project-based learning (PBL) goes through a new stage of development as it includes ICT tools and up-to-date teaching methods. We applied this approach in an online undergraduate course in statistics. This paper describes the process and evaluates the outcome of PBL in teaching statistics course to a group of undergraduate students at the University of Ioannina, Greece. Students had to attend the class and react to practical exercises according to the demands of the PBL. They were asked to use questionnaires and go through interviews to evaluate the teacher-to-student, student-to-student, and student-to-content interactions in PBL method. Data obtained from online questionnaire and were analysed. The results

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Awareness is a powerful mental attitude which enables facing difficulties and generating a proper conception of what mathematics and doing mathematics really are, then enhancing affect.

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===== Maria Piccione & Francesca

Ricci Activities and tools for Early Developing
Symbol-sense

<https://doi.org/10.37626/GA9783959872188.0.077>

First page: 407 Last page: 412 Abstract This work deals with practical aspects of semiotic and relational approaches in teaching/learning. It is based on the Early Algebra principle by which mental models of algebraic thought can be constructed starting with Primary School, by teaching Arithmetic "algebraically". Here, the problem of the symbolic representation of mathematical objects is tackled.

The aim is to allow students to clearly distinguish between the two worlds - the one of signs and the

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one of meanings - and to use signs of mathematical language with full awareness rather than just manipulating them. We present activities and tools which take into consideration different semiotic fields (gestural, iconic, natural, ...) to achieve the mathematical field.

=====
===== Shelley B. Poole The "Yes,

and..." Approach to Teaching Mathematical
Modelling

<https://doi.org/10.37626/GA9783959872188.0.078>

First page: 413 Last page: 417 Abstract Mathematical modelling can be a particularly creative tool when students are asked to solve open-ended problems. As instructors, when implementing mathematical modelling in the classroom, we can build on the ideas of our students. Utilizing the concept of "yes, and..." from improvisational theatre, we can foster students' creativity and empower them to take

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ownership of the mathematics when solving open-ended problems. Using this approach allows us an opportunity to let go of the structure of old and embrace new approaches and ideas in the classroom.

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===== Jordan T. Register & Christian H. Andersson Analysing PSTs Ethical Reasoning in a Data Driven World
<https://doi.org/10.37626/GA9783959872188.0.079>
First page: 418 Last page: 423 Abstract The prevalence of Big Data Analytics as a proxy for human decision-making processes in globalized society, has catalyzed a call for the modernization of the mathematics curriculum to promote data literacy and ethical reasoning. To support this initiative, ten preservice mathematics teachers (PSTs) in Sweden (SWE) and the United States (US) were interviewed to identify what ethical considerations preservice teachers (PSTs) make in

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their mathematical analyses of data science contexts. Preliminary results indicate that teachers make a myriad of ethical considerations in their mathematical work that are tied to their critical mathematics consciousness (CMC), conceptions of data literacy, and experiences. As a result, it is imperative that educators simultaneously design educational curricula to foster students' CMC and work to transform teacher held definitions of data literacy to reflect changes brought on by globalization.

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===== Sarah A. Roberts, Cameron Dexter Torti & Julie A. Bianchini A Mathematics Specialist Supporting District Shifts in Instruction for Multilingual Learners through Studio Days
<https://doi.org/10.37626/GA9783959872188.0.080>
First page: 424 Last page: 428 Abstract Mathematics specialists fill a gap in providing individualized

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professional learning for classroom teachers, including furnishing much needed professional learning related to multilingual learners. This qualitative study examines the role a secondary district mathematics specialist in the United States played in supporting shifts in instruction for multilingual learners through the enactment of studio days professional learning. Interviews across two years with a mathematics specialist were examined. Using a framework of multilingual learner principles and adaptive reasoning, we share instructional shifts around the adaptive reasoning categories of flexibility, understanding, and deliberate practice, as related to multilingual learners. We conclude with implications for both research and practice related to secondary mathematics specialists, multilingual mathematics instruction, and studio day professional learning.

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Keith Robins Applying
Mathematical Thinking Principles to Real Life
Situations to Create an Objective Thinking Strategy
<https://doi.org/10.37626/GA9783959872188.0.081>
First page: 429 Last page: 433 Abstract Teaching set
thinking can make a great difference in teaching
and learning mathematics as it demonstrates its
relevance to real life. The following examples
include how socialising is a mathematical process
and how one can create a mathematical model for
any experience or system rather than creating
perceptions.

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Christine Robinson & Karen
Singer-Freeman Digital Enhancements for
Common, Online Mathematics Courses
<https://doi.org/10.37626/GA9783959872188.0.082>
First page: 434 Last page: 438 Abstract The
University of North Carolina System Office (UNC

System) established the Digital Enhancement Project to rapidly develop high-quality, online course materials to support faculty and student success in online courses. Content was created for Calculus I, a course that is critical to student progress, is in high demand, and has large enrollments. To evaluate the usefulness and impact of the materials, project evaluators developed assessment instruments that included a survey for students enrolled in classes being taught by early adopters. Overall, students rated the quality of classes using project materials to be high. However, underrepresented ethnic minority students were somewhat less positive than other students and all students were less positive about the alignment of course content with course assessments than they were about other aspects of the course design.

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===== Ann-Sofi Røj-Lindberg

Trends in Mathematics Education in Finland
<https://doi.org/10.37626/GA9783959872188.0.083>
First page: 439 Last page: 444 Abstract Since PISA 2000 there has been a huge international interest towards education in Finland. Are there particular explanations to the PISA-success, a philosophers' stone, to be found? Is it possible to export innovative components found in Finnish schools to other countries and what exactly are these components? Is it about accessibility? Can the successful components be noticed and described? And why has the Finnish PISA-results in mathematics dropped lately? Questions like these have been asked over the years. In the paper I discuss trends in the Finnish public schooling that I find to be of particular importance and highlight changes in the curriculum and trends in mathematics education generally. I connect my arguments to research findings as well as to anecdotal stories.

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===== Sheena Rughubar-Reddy & Emma Engers Video Tutorials and Quick Response Codes to Assist Mathematical Literacy Students in a Non-classroom Environment
<https://doi.org/10.37626/GA9783959872188.0.084>
First page: 445 Last page: 450 Abstract This paper discusses effectiveness of video tutorials, accessed via Quick Response codes, on Grade 10 mathematical literacy students' ability to complete their homework. To assist them outside of the classroom, an intervention involving video tutorials explaining specific sections of work and how to go about solving problems, was devised. Students could access the relevant tutorials on a mobile device via the scanning of barcodes provided on the worksheets. The effectiveness of the intervention was assessed both quantitatively and qualitatively, through analysis of the participating students' homework

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submissions and interviews with the students after the intervention had ended. Feedback from students via focus group interviews and questionnaires revealed that they found the tutorials helpful. This would indicate that the intervention was potentially beneficial. Keywords: Quick Response codes, video tutorials, homework.

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===== Sheryl J. Rushton, Melina Alexander & Shirley Dawson Mathematics to Teacher Education Persistence
<https://doi.org/10.37626/GA9783959872188.0.085>
First page: 451 Last page: 456 Abstract In 2017, a university in Northern Utah's Teacher Education and Mathematics Departments moved from a two-course mathematics requirement to incorporate a three-course mathematics requirement for Elementary and Special Education Teacher Education majors to satisfy university and Utah

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$\tan(\tan^{-1}(x))=x$, but the expression $\tan(n\tan^{-1}(x))$ looks very complicated but is actually an expression of the type polynomial divided by another polynomial. The sine function is very important not only for graphs but for geometry too. There are some inputs whose behavior is very strange from the usual ones. Geometrical shapes and their relations are very important for many things such as for vectors and many more but the triangle is very special because it is the least sided polygon. Riemann zeta function is very crucial for prime numbers. Infinite series related to them may be a game changer for it. Wallis's integral formula is a boon but its domain is very constrained and needs another solution to it.

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 ===== Ishola A. Salami & Temitope

O. Ajani Mathematics Songs to Hip-hop Music:
 Power to Engage Pupils and Improve Learning

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Outcomes in Primary Mathematics

<https://doi.org/10.37626/GA9783959872188.0.088>

First page: 466 Last page: 471 Abstract Song-based strategy has been one of the most effective approaches of making learners remembering rule-governed educational contents like that of Mathematics. But the extent to which learners enjoy Mathematics songs and get engaged in it within and outside the school system is limited. Besides, many of the available Mathematics songs are for preschool while research studies have shown that learners' scores in Mathematics started to decline from Primary IV class. One of the music types children love most is hip-hop and they easily memorize the lyrics. This led to the production of Mathematics hip-hop music with its lyrics being Mathematics principles, ideas, formulae and procedures for upper primary classes. This study determines the effectiveness of Mathematics Hip-

hop music on improved Mathematics learning outcomes. Keywords: Hip-hop music, MATMUSIC, Upper primary Mathematics.

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S R Santhanam Teaching Mathematics using Storytelling and Technology
<https://doi.org/10.37626/GA9783959872188.0.089>
First page: 472 Last page: 475 Abstract Storytelling coupled with technology is an attractive method to teach geometry. The following story was told to a set of students of the age group 14 – 16 years, who are familiar with the GeoGebra software. A pirate hid his treasures in an island and left a note for the treasure hunt to his son. The instructions are as follows. “Find two palm trees in the island with markings of a heart (♥) on them. There will be a very small pond near them. From the pond go to one palm tree and turn 90 degrees and proceed equal distance to mark a point P on the ground. Do

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the same for the second palm tree to get another point Q. The treasure is hidden at the midpoint of PQ”. When his son went there, he could find the two palm trees but there was no pond nearby. But with his geometric knowledge, he could find the treasure. How? The students tried and some found the solution. In this short paper, this is discussed.

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Ipek Saralar-Aras & Betul Esen Designing Lessons for the 5th Graders through a Design Study on Teaching Polygons
<https://doi.org/10.37626/GA9783959872188.0.090>
First page: 476 Last page: 481 Abstract It has been argued by researchers that learning about polygons is important. Student performance on polygons, particularly at the middle school level, was found to be lower than expected. Thus, this paper presents brief summaries of RETA-based lesson plans on polygons. The RETA is a maths model, which

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supports realistic, exploratory, technology-enhanced and active lessons. The participants of the study were 60 middle school students. Data was collected through lesson recordings of 5 lessons, pre-tests and post-tests to measure students' performance on polygons, lesson evaluation forms and interviews. The findings show that students found the RETA-based lessons engaging but some of the parts were difficult for them. The lesson plans presented in this paper were the 2nd version of the plans, amended after the 1st cycle of designbased research. It is hoped that the lesson plans set an example for teachers and teacher candidates.

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Stephanie Sheehan-Braine
& Irina Lyublinskaya A Framework for Online
Problem-Based Learning for Mathematics Educators
<https://doi.org/10.37626/GA9783959872188.0.091>
First page: 482 Last page: 487 Abstract Research

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shows that problem-based learning (PBL) has the capacity to make mathematics culturally relevant, so there is a need to adapt this successful learning model to virtual environments. This study proposes the Framework for Online Problem-Based Learning for Educators (OnPBL-E) to add this challenge. The content components of the OnPBL-E framework were developed by unpacking PBL instructional principles and identifying interactions between the essential elements of PBL: the context, the educator, and the learner. Then, the Multimodal Model for Online Education was used to identify online modules for these interactions. This study also describes an example of implementing PBL in an online mathematics modeling course.

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M. Vali Siadat Keystone
Model of Teaching and Learning in Mathematics
<https://doi.org/10.37626/GA9783959872188.0.092>

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nonroutine problems. This then begs the question: how are these students to face the upcoming hurdles and challenges bound to be thrown their way at the tertiary level? Keywords: Mathematical thinking, problem solving, non-routine, heuristics

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Praneetha Singh
Mathovation- Creativity and Innovation in the Mathematics Classroom

<https://doi.org/10.37626/GA9783959872188.0.094>

First page: 500 Last page: 505 Abstract The 21st century is predicted as the century of rapid development in all aspects of life. People are creative, but the degree of creativity is different (Solso, 1995). The perspective of mathematical creative thinking expressed by experts such as Gotoh (2004) and Krulik and Rudnick (1999) refer to a combination of logical and divergent thinking, which is based on intuition but has a conscious aim

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and process. This thinking is based on flexibility, fluency and the uniqueness of mathematical problem solving. This paper will aim to assist the readers to find out the competencies that are required to assess the creative thinking ability and characteristic of mathematical problems that can be used in creative thinking.

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Charles Raymond Smith & Cyril Julie Towards Understanding Integrating Digital Technologies in the Mathematics Classroom
<https://doi.org/10.37626/GA9783959872188.0.095>
First page: 506 Last page: 511 Abstract In the context of ICT integration, a presentation by a teacher during a continuing professional development session is analyzed from the instrumental orchestration as well as the Technological Pedagogical (And) Content Knowledge (TPACK) perspective. The results

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indicate that some of the components of instrumental orchestration were used by the teacher during the presentation. In realising these orchestrations, the teacher had to delve into the different knowledge components that constitute TPACK. It is concluded that CPD providers need to take such complexities into account when delivering training programs. Keywords: GeoGebra, ICT integration, instrumental orchestration, TPACK, mathematics teacher practices

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===== Panagiotis Stefanides
“Generator Polyhedron”, Icosahedron Non-Regular, Discovered Invention

<https://doi.org/10.37626/GA9783959872188.0.096>

First page: 512 Last page: 517 Abstract The Invented [2017] Polyhedron, is a Non-Regular Icosahedron, it has 12 Isosceli triangles and 8 Equilateral ones. Its Skeleton Structure consists of 3

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Parallelogramme Planes Orthogonal to each other, with sides' ratios based on the Square Root of the Golden Number [ratios of $4/\pi$ specially for $\pi = 4/T = 3.14460551..$, where T is the Square Root of the Golden Number ($\sqrt{\Phi}$) equal to 1.27201965..] and related directly to the Icosahedron, whose structure is based on the Golden Number and to the Dodecahedron, whose structure is based on the Square of the Golden Number. Its geometry relates to Plato's Timaeus “Most Beautiful Triangle”, a proposed theorization by the author [“contra” the standard usual International interpretations], presented to various national and international conferences [the Magirus/ Kepler one is a constituent part of this triangle, similar to it, but not the same with it].

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===== Michelle Stephan & David Pugalee The Future of Mathematics Education in

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the Digital Age

<https://doi.org/10.37626/GA9783959872188.0.097>

First page: 518 Last page: 521 Abstract How do the mathematics content and processes taught in school today need to change in order to prepare students for participation in the digital and information age? We propose to stimulate a discussion about what mathematics education should aim for in preparing students for employment and local/global citizenship in this ever-changing technological world. Our group will develop a forward-minded agenda on implementation of mathematics content and practices. This will include detailing 1) what content/practices should be kept, changed or deleted from the curriculum, 2) potential impediments to teachers implementing them and possible strategies to address these, and 3) necessary research projects to study implementations in order to make ongoing recommendations. We will aim to start with middle

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school (ages 12-15) with a vision to continue this working group through multiple conferences.

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===== Yelena Stukalin & Sigal
Levy Introducing Probability Theory to Ultra-Orthodox Jewish Students by Examples from the Bible and Ancient Scripts

<https://doi.org/10.37626/GA9783959872188.0.098>
First page: 522 Last page: 525 Abstract Cultural diversity in the classroom may motivate teachers to seek examples that reflect their students' cultural backgrounds, thus making the course material more appealing and understandable. In this context, the Holy Bible is a source of many stories and anecdotes that may be included in teaching probability theory to even ultra-Orthodox Jews. This paper aims to demonstrate the use of stories from the Bible to introduce some concepts in probability. We believe that this approach will make learning probability

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and statistics more understandable to the Ultra-Orthodox students and increase their motivation to engage in their studies. Keywords: cultural diversity, biblical examples, non-statisticians

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===== Emily K. Suh, Lisa Hoffman & Alan Zollman STEM SMART: Five Essential Life Skills Students Need for their Future

<https://doi.org/10.37626/GA9783959872188.0.099>

First page: 526 Last page: 530 Abstract To be successful in a future STEM-focused world, students need to know more than content: students need to be STEM SMART. A STEM SMART student has the mindset of an intellectual risk taker, the tenacity to tackle tough problems while learning from mistakes, and the critical thinking skills to separate scientific information from opinions and beliefs. We use the SMART acronym (Struggle, Mistakes, All, Risk, Think) to introduce five

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essential life skills not obviously related to STEM (Science, Technology, Engineering, and Mathematics) disciplines but necessary for success in STEM. For each of our five essential skills, we provide an explanation of its importance, connections to relevant educational research, and real-world applications.

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===== Janet (Hagemeyer) Tassell, Jessica Hussung, Kylie Bray, Darby Tassell & Haley (Clayton) Carbone Elementary Pre-Service Teachers' Beliefs about Mathematics Fluency: Transforming Through Readings & Discussions
<https://doi.org/10.37626/GA9783959872188.0.100>

First page: 531 Last page: 536 Abstract Teacher candidates continue to enter Elementary Math Methods with the belief that mathematics fluency is synonymous to speed and rote memorization –assessed best by timed tests. In the Elementary

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Math Methods 2018-2021 school years, fall and spring semesters, qualitative data were gathered from pre-service elementary mathematics teachers' pre/post-assessments of reading mathematics fluency journal articles, viewing video samples, and participating in full-class discussions. The pre- to post-assessment themes show that reading research articles may be a possible intervention to add to their clinical school observations in the K-6 setting.

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===== Eleni Tsami, Dimitra Kouloumpou & Andreas Rokopanos The Gender Gap in Statistics Courses: A Contemporary View on a Statistics Department

<https://doi.org/10.37626/GA9783959872188.0.101>

First page: 537 Last page: 541 Abstract Gender equality remains a strategic objective of the EU educational system. The present paper provides a contemporary view of the gender balance in the

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Department of Statistics and Insurance Science at the University of Piraeus. Our results indicate that a gender gap is prevalent in this specific department, although this gap is only marginal in terms of the statistics on students. On the other hand, statistics for the academic staff reveal that the department is clearly male dominated, thus stirring the discussion of gender preferences and systemic gender bias. Our findings support the notion that the institutional change currently taking place across departments and academic communities worldwide is yet to come to fruition and considerable effort is needed in order to bridge the gender gap in science, technology, engineering and mathematics (STEM) courses.

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===== Ching-Yu Tseng, Paul Foster, Jake Klinkert, Elizabeth Adams, Corey Clark, Eric C. Larson & Leanne Ketterlin-Geller

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Using Cognitive Walkthroughs to Evaluate the Students' Computational Thinking during Gameplay
<https://doi.org/10.37626/GA9783959872188.0.102>
First page: 542 Last page: 547 Abstract In this paper, we describe how a team of multidisciplinary researchers, including game designers, computer scientists, and learning scientists, created a learning environment focused on computational thinking using a commercial video game Minecraft. The learning environment includes a Minecraft mod, a custom companion application, and a learning management system integration. The team designed the learning environment for students in Grades 6-8. Working with a group of educators, the researchers identified eleven high-priority

Computer Science Teacher Association (CSTA) standards to guide game development. The team decomposed the standards into essential knowledge,

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skills, and abilities. In this study, we describe how we used a cognitive walkthrough with a middle school student to investigate: (a) the ways in which the game supports student learning (b) the barriers to learning, and (c) the necessary changes to facilitate learning.

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===== Ariana-Stanca Vacaretu
GROWE in Math
<https://doi.org/10.37626/GA9783959872188.0.103>
First page: 548 Last page: 553 Abstract Getting Readers on the Wavelength of Emotions (GROWE) is an Erasmus+ project initiated with the aim to develop all (including math) teachers' competences to address students' literacy and emotional learning needs. The GROWE classroom approach includes meaningful reading and writing learning activities and develops mastery of such strategies using diverse authentic texts (i.e. not 'clean' textbook

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texts), while learning the discipline. Simultaneously, the students enhance their social-emotional skills by learning to recognise and manage their emotions, establish positive relationships, and make responsible decisions. This paper presents my experience in implementing the GROWE approach in my maths lessons with high-school students: the authentic texts I used and related tasks, and some implementation results.

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===== Shin Watanabe & Takako
Aoki In School and Out School

<https://doi.org/10.37626/GA9783959872188.0.104>

First page: 554 Last page: 559 Abstract Currently, learning in developed countries is centred on school education. It is not only Japanese teachers who regret that few students enjoy learning mathematics under the current school system. And in the age of 100 years of life, everyone should

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continue to study academics even after graduating from school. Unfortunately, learning mathematics is difficult after graduating from school. It is clear that lifelong learning has now become an important learning venue for all. I decided to call this school education “In School”, and to be released from the school system and call learning “Out School”. I will describe the richness of the future of “Out School”, which is a place for learning in the future. Out School is an important mathematical education that is an extension of In School. Key words: In School, Out School, Creativity, Mathematical Learning

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===== Laura Watkins, Patrick
Kimani, April Ström, Bismark Akoto, Dexter Lim
Representational Competence with Linear
Functions: A Glimpse into the Community College
Algebra Classroom

<https://doi.org/10.37626/GA9783959872188.0.105>
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First page: 560 Last page: 565 Abstract Teaching and learning strategies that encourage students to develop the ability to use mathematical representations in meaningful ways are powerful tools for building algebraic understandings of mathematics and solving problems (American Mathematical Association of Two-Year Colleges [AMATYC], 2018). The study of functions in algebra courses taught at community colleges in the United States provides students the opportunity and space to make connections between important characteristics of various families of functions. Using examples of teaching and learning linear functions from intermediate and college algebra courses in community colleges, we explore the ways instructors and students use a variety of representations (visual, symbolic, numeric, contextual, verbal, and/or physical) in teaching and learning linear functions, while connecting

between and within these representations.

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===== Ian Willson Formative

Assessment Activities for Introductory Calculus

<https://doi.org/10.37626/GA9783959872188.0.106>

First page: 566 Last page: 568 Abstract A hands-on

workshop in which participants engage as beginning learners in an extensive range of stand-alone tasks, and in which some of the tenets and guiding principles of formative assessment are used to highlight what many consider to be the best kind of teaching practice—and that which is critically important if we are to improve the quality of instruction for all. The idea is that clear articulation of just what is meant by formative assessment is provided in the actual context of ready-to-use classroom tasks.

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===== Kay A. Wohlluter & Mary

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B. Swarthout Number Talks: Working to Deepen and Grow Number Sense Knowledge

<https://doi.org/10.37626/GA9783959872188.0.107>

First page: 569 Last page: 573 Abstract Deep, flexible number understandings are foundational for mathematics learning. This workshop is based on two mathematics teacher educators' journey to better understand how to facilitate future teachers' development and use of number sense. Engaging preservice teachers in Number Talks enabled the educators to identify and to examine the strategies preservice teachers used during number talks while also providing a context for improving and expanding their own professional knowledge about number sense. Participant engagement includes experiencing Number Talks, examining preservice teachers' work samples, and responding to the educators' observations about number sense language (decomposition of numbers, fluency and

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flexibility with numbers, and mathematical properties).

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===== Ryan G. Zonnefeld & Valorie L. Zonnefeld Rural STEM Teachers: An Oasis in the Desert

<https://doi.org/10.37626/GA9783959872188.0.108>

First page: 574 Last page: 579 Abstract Teacher preparation programs for STEM education should prepare teachers for all settings, including rural schools. Students across geographic locales show equal interest in STEM fields, but rural students often lack access to highly qualified STEM teachers. UNESCO (2014) notes that the disparity in education between rural and urban schools is a concern of many countries. In the United States, the National Center for Educational Statistics confirms that twenty percent of students are educated in rural schools and the STEM teachers in these schools

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are often the only STEM expert. These teachers become backbone teachers that set the foundation and direction of STEM education in the entire school. This paper reviews the landscape of STEM education in rural schools, explores strategies for ensuring high-quality STEM education in rural schools, and outlines early successes of a university teacher preparation program in meeting these needs.

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===== Valorie L. Zonnefeld
Pedagogies that Foster a Growth Mindset Towards Mathematics

<https://doi.org/10.37626/GA9783959872188.0.109>

First page: 580 Last page: 584 Abstract Research demonstrates that a student's mindset plays an important role in achievement and that mindsets are domain specific. Carol Dweck claimed that mathematics needs a mindset makeover and has

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shown that teachers can foster a growth mindset through their pedagogical choices. This paper shares how one university trains preservice teachers in mathematics pedagogies that are key to fostering a growth mindset. These practices include educating students on brain function, equitable access, metacognition strategies, feedback practices, the importance of productive struggle, and learning from mistakes.

Conceptual Maths Peter Mattock 2023-01-05
Written by Peter Mattock, Conceptual Maths: Teaching 'about' (rather than just 'how to do') mathematics in schools aims to empower teachers to support students on a comprehensive and coherent journey through school mathematics. Showcasing the best models, metaphors and representations, it provides excellent examples, explanations and exercises that can be used across the curriculum.

Concepts are at the heart of the study of
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mathematics. They are the ideas that remain constant whenever they are encountered, but which combine and build upon each other to create the mathematical universe. It is the structure of each concept that gives rise to the procedures that are used in calculation and problem-solving - and, by learning about these structures, a learner can make sense of how different processes work and use them flexibly as need demands. In his first book, *Visible Maths*, Peter Mattock focused on the use of representations and manipulatives as images and tools and how this can provide a window into some of these mathematical structures. His aim in *Conceptual Maths* is to go deeper, beyond the procedures, and to shed greater light on the structures of the subject's different concepts. The book explores how a variety of visual tools and techniques can be used in the classroom to deepen pupils' understanding of mathematical structures,

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concepts and operations, including: number; addition and subtraction; multiplication and multiples; division and factors; proportionality; functionality; measures; accuracy; probability; shape and transformation; and vectors, among many others. In so doing, Peter equips teachers with the confidence and practical know-how to help learners assimilate knowledge of mathematical concepts into their schema and take their learning to the next level. Containing numerous full-colour diagrams and models to illustrate the conceptual takeaways and teaching techniques discussed, *Conceptual Maths* also includes a glossary covering the key mathematical terms. Suitable for teachers of maths in primary, secondary and post-16 settings

Exploring Mathematics Book for Class 3 Rashmi

Katyal 2020-04-17 Goyal Brothers Prakashan

GRE Math Workbook Kaplan Test Prep 2015-12-01

Kaplan's GRE Math Workbook provides hundreds

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of realistic practice questions and exercises to help you prepare for the Math portion of the GRE. With expert strategies, content review, and realistic practice sets, GRE Math Workbook will help you face the test with confidence. The Best Review Six full-length Quantitative Reasoning practice sets Diagnostic tool for even more targeted Quantitative practice Review of crucial math skills and concepts, including arithmetic, algebra, data interpretation, geometry, and probability Key strategies for all Quantitative Reasoning question types on the revised GRE An advanced content review section to help you score higher Expert Guidance We know the test: The Kaplan team has spent years studying every GRE-related document available. Kaplan's expert psychometricians ensure our practice questions and study materials are true to the test. We invented test prep—Kaplan (www.kaptest.com) has been helping students for

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almost 80 years. Our proven strategies have helped legions of students achieve their dreams.

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Added in this Book: - Utilising 15 minute reading time just before the exam (by CBSE topper) - Structuring your Maths Exam 3 hours smartly (by CBSE Markers) - 2020 marking scheme points (value points) underlined in each sample paper solution (CBSE markers look for these key points in your answers to allot full Marks). - The geometry section diagrams are accurately drawn to clear your understanding of all kinds of geometry questions that can appear in the upcoming February 2020 exam. A must buy book as vouched by many experts in Mathematics!

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the first two levels of Bloom's Taxonomy
—Knowledge and Understanding. 7. Error Alarm: Common mistakes which learners commit often along with the correct way of doing the same. 8. Know More: Additional information for the learners relating to the concepts learnt in the chapter 9. Maths in My Life includes questions relating Maths to daily life and which can help relate the topic with the environment (life) around us. 10. Tricky Maths: Challenge questions to help the learners build thinking skills and reasoning skills by solving tricky questions. 11. Project Work: Projects which can help learners connect Math with our daily life or that take the concepts learnt to a new level. 12. Concept Map: Summary points to list the important concepts learnt in the chapter in a crisp form. 13.

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