

100 questions that promote Mathematical Discourse

QUESTIONS THAT WILL:

Help students **work together** to make sense of mathematics

- 1 What **strategy** did you use?
- 2 Do you **agree**?
- 3 Do you **disagree**?
- 4 Would you **ask the rest of the class** that question?
- 5 Could you **share your method** with the class?
- 6 What part of what he said **do you understand**?
- 7 Would someone like to **share** _____?
- 8 Can you **convince the rest of us** that your answer makes sense?
- 9 What do **others think** about what [student] said?
- 10 Can someone **retell or restate** [student]'s explanation?
- 11 Did you **work together?** In what way?
- 12 Would anyone like to **add to** what was said?
- 13 Have you **discussed this** with your group? With others?
- 14 Did anyone get a **different answer**?
- 15 Where would you go for **help**?
- 16 Did everybody get a **fair chance** to talk, use the manipulatives, or be the recorder?
- 17 How could you help someone without telling them the answer?
- 18 How would you explain _____ to someone who missed class today?

Mathematical Discourse

Holly Burwell, Sue Chapman



Mathematical Discourse:

Mathematical Discourse: Let the Kids Talk! Barbara Blanke, 2019-12-10 This invaluable resource provides teachers with the tools they need to facilitate mathematical discourse and create opportunities for students to think constructively communicate effectively and increase mathematics proficiency This book will help teachers develop a new set of pedagogical skills and strategies to assess plan and organize their classrooms in a manner that is conducive to mathematical discourse With helpful tips and strategies that are easy to implement this standards based book supports an equitable learning environment by encouraging active listening clear communication justification of perspective and acknowledgement of students experiences Each chapter includes Culturally and Linguistically Responsive Teaching and Learning strategies to address cultural norms for diverse populations and support the needs of English language learners With tips for implementing Math Talks and Number Talks this resource will get students thinking like mathematicians in no time

The Role of Mathematics Discourse in Producing Leaders of Discourse Libby Knott, 2010-01-01 The intent of this monograph is to showcase successful implementation of mathematical discourse in the classroom Some questions that might be addressed are How does a teacher begin to learn about using discourse purposefully to improve mathematics teaching and learning How is discourse interwoven into professional development content courses to provide teachers with the tools necessary to begin using discourse in their own classrooms What does a discourse rich classroom look like and how is it different from other classrooms from both the teacher s and the students perspectives How can teachers of pre service teachers integrate discourse into their content and methods courses How can we use discourse research to inform work with teachers both pre and in service for example to help them know how to respond to elicited knowledge from students in their classrooms What are the discourse challenges in on line mathematics courses offered for professional development Can on line classrooms also be discourse rich What would that look like In what ways does mathematical discourse differ from discourse in general

Mathematical Discourse Kay O'Halloran, 2004-12-01 This book examines mathematical discourse from the perspective of Michael Halliday s social semiotic theory In this approach mathematics is conceptualized as a multisemiotic discourse involving language visual images and symbolism The book discusses the evolution of the semiotics of mathematical discourse and then proceeds to examine the grammar of mathematical symbolism the grammar of mathematical visual images intersemiosis between language visual images and symbolism and the subsequent ways in which mathematics orders reality The focus of this investigation is written mathematical texts The aims of the book are to understand the semantic realm of mathematics and to appreciate the metaphorical expansions and simultaneous limitations of meaning in mathematical discourse The book is intended for linguists semioticians social scientists and those interested in mathematics and science education In addition the close study of the multisemiotic mature of mathematics has implications for other studies adopting a social semiotic approach to multimodality

Mathematical Discourse that Breaks Barriers

and Creates Space for Marginalized Learners ,2017-01-01 For the past decade reform efforts have placed importance on all students being able to participate in collaborative and productive mathematical discourse as an essential component for their learning of mathematics with deep conceptual understandings In this book our intent is to support mathematics education researchers teacher educators teachers and policy makers in providing positive solutions to the enduring challenge in mathematics education of enabling all participants including diverse students to equitably access mathematical discourse By diverse learners we mean learners who are minoritized in terms of gender disability or and social cultural ethnic racial or language backgrounds We aim to increase understanding about what it means to imagine design and engage with policy and practice which enhance opportunities for all students to participate in productive mathematical discourse In widening the lens across policy and practice settings we recognize the interplay between the many complex factors that influence student participation in mathematics The various chapters tell practical stories of equitable practices for diverse learners within a range of different contexts Different research perspectives empirical traditions and conceptual foci are presented in each chapter Various aspects of diversity are raised issues of concern are engaged with and at times conventional wisdom challenged as the authors provide insights as to how educators may address issues of equitable access of minoritized learners to the mathematical discourse within settings across early primary through to high school and situated in schools or in family and community settings

The Pragmatics of Mathematics Education Tim Rowland,2000 Annotation In The Pragmatics of Mathematics Education Tim Rowland examines students in the process of making and coming to know mathematics focusing on the gap between conjecture and belief between assertion and conviction The unexpected finding is that vague language plays an essential role in the communication of students propositions and attitudes Drawing on a large original corpus of mathematical conversations with students whose ages range from 5 to 25 the book includes reports of four empirical studies each of which highlights how students and teachers deploy vague language in various mathematical contexts The book offers Introduction to pragmatics and pragmatic tools Understanding of vague language and what speakers achieve by using it Awareness of the prevalence and function of vague language in the classroom Wide ranging psychological and philosophical discussion of induction and generalisation Major reference on generic examples as a mode of proof

A Handbook of Mathematical Discourse Charles Wells,2003

What Counts as Mathematical Discourse? Judit Moschkovich,2003 In this paper I use situated and socio cultural perspective Gee 1996 1999 to examine descriptions of mathematical discourse and an example of student talk in a mathematics classroom Using this example I discuss how the distinction between everyday and mathematical discourse can help or hinder us in hearing the mathematical content in student talk Contains 1 figure and 1 endnote This work was supported in part by a grant from NSF REC 9896129 and REC 0096065 For complete proceedings see ED500858

Language for Learning Mathematics: Assessment for Learning in Practice Clare Lee,2006-06-16 Assessment for learning is a powerful way to raise standards

and improve learning However as this book shows effective assessment for learning in the mathematics classroom depends on pupils being able and willing to use mathematical language to express their ideas When discussion negotiation and explanation are encouraged teachers use assessment for learning creatively the work quickly becomes more challenging and the pupils come to see themselves as successful learners Many pupils find it difficult to express ideas in mathematics because of problems with the language that is used to convey mathematical concepts This book shows teachers how to help pupils express what they really know and understand so that assessment for learning can be used The book Discusses what mathematical language is and what it is not Suggests practical approaches to introducing more discourse into the classroom Explores the ideas of assessment for learning rich questioning and dialogue effective feedback and peer and self assessment and suggests how these can be used effectively in mathematics classrooms to improve learning Language for Learning Mathematics is key reading for teachers and trainee teachers in mathematics as well as assessment advisors at LAs

Preparing Mathematics and Science Teachers for Diverse Classrooms Alberto J. Rodriguez, Richard S. Kitchen, 2004-09-22 This book provides a theoretical basis and practical strategies to counter resistance to learning to teach for diversity in culturally and gender inclusive ways and resistance to teaching for understanding using student centered and inquiry based pedagogical approaches Teacher educators from across the United States present rich narratives of their experiences in helping prospective and practicing teachers learn to teach for diversity and for understanding in a variety of mathematics and science contexts Mathematics and science education has been slow to respond to issues of diversity and equity *Preparing Mathematics and Science Teachers for Diverse Classrooms Promising Strategies for Transformative Pedagogy* helps to begin a network for support and collaboration among teacher educators in science and mathematics who work for multicultural education and equity A unique and much needed contribution this book is an essential resource for teacher educators K 12 teachers who work as student teacher supervisors and cooperating teachers and graduate students in mathematics and science education and a compelling text for science and mathematics methods courses *Power Up Your Math Community* Holly Burwell, Sue Chapman, 2024-09-02 A yearlong learning adventure designed to help you build a vibrant math community A powerful math community is an active group of educators students and families alive with positive energy efficacy and a passion for mathematics Students teachers and leaders see themselves and each other as mathematically capable and experience mathematics as a joyful activity *Power Up Your Math Community* is a hands on 10 month guide designed to help you and your school maximize your students math learning and strengthen your mathematics teaching and learning community Each chapter offers a month s worth of practice based professional learning focused on a desired math habit alongside parallel math problems and learning activities for teachers to use themselves and with students This format allows educators to work together to improve math teaching and learning across a school year building a strong foundation for students mathematical proficiency identity and agency The book ignites solutions and advocates for rigorous and joyful

mathematics instruction for everyone including school leaders teachers students and their families Authors Holly Burwell and Sue Chapman provide educators with a detailed roadmap for creating a positive and effective math community that supports all students mathematical learning by Offering guidance on building a math community with chapter vignettes and prompts such as Mathematical Me Let s Do Some Math Since We Met Last Let s Try It Math Talks Manipulatives and Models Matter Game Time and more Emphasizing an assets based approach to teaching math that recognizes the unique strengths and experiences of each student Providing strategies for promoting growth mindset in math and equity and inclusion in math education Focusing on both classroom level and building level improvement as well as offering support for teachers instructional coaches principals and district leaders Power Up Your Math Community will inspire you to reimagine the way you teach math and empower you with the tools to make a lasting impact on your students mathematical understanding So get ready to power up your math community and watch as your students thrive in their mathematical journey Enabling Mathematics Learning of Struggling Students Yan Ping Xin,Ron Tzur,Helen Thouless,2022-07-11 This book provides prospective and practicing teachers with research insights into the mathematical difficulties of students with learning disabilities and classroom practices that address these difficulties This linkage between research and practice celebrates teachers as learners of their own students mathematical thinking thus contributing an alternative view of mathematical progression in which students are taught conceptually The research based volume presents a unique collaboration among researchers in special education psychology and mathematics education from around the world It reflects an ongoing work by members of the International Group for the Psychology of Mathematics Education PME and the North American Chapter of the PME Working Groups The authors of chapters in this book who have been collaborating extensively over the past 7 years are from Australia Canada the United Kingdom and the United States *Mathematics Instruction in Dual Language Classrooms* Marco A. Bravo,Kip Téllez,2024-07-01 Language and culture play a critical role in the teaching of mathematics and this role intensifies when considering the teaching of mathematics in dual language classrooms This book unpacks lessons learned from socio cultural theory being applied to research of the teaching of mathematics to Emergent Bilinguals with the end of informing practice Utilizing a socio cultural lens authors present the possibilities and limits of the teaching of mathematics in dual language programs 90 10 50 50 models Themes of translanguageing disciplinary literacy instruction and culturally responsive instruction are leveraged to test the potential of these constructs to assist Spanish English Emergent Bilinguals access rigorous mathematics content Authors also present limits to these models as often they can overshadow the mathematics learning We embrace a stance where language and literacy are seen as tools for content area learning and not as ends unto themselves Transform Your K-5 Math Class Amanda Thomas,2020-01-06 Through detailed lessons and examples discover how to integrate technology in K 5 math to amplify and enhance your mathematics teaching and drive student learning Instead of drill and practice apps and worksheets what if technology enabled exploration of math concepts

Instead of screens for disconnected individual learning what if technology fostered mathematical discourse and collaboration
 Instead of a one size fits all approach to teaching mathematics what if we used technology to differentiate to meet students
 diverse needs Technology has the power and potential to support the teaching and learning of math content at all grade
 levels but the presence of technology is insufficient unless it s paired with effective teaching practices and meaningful
 content This book poses and unpacks the above questions and many more with examples that illustrate how to integrate
 technology in the K 5 math classroom highlighting opportunities to transform mathematics teaching through strategic
 technology use The book Illustrates two contrasting examples in each chapter including transcripts of sample class
 conversations mathematical tasks illustrations of student work and reflection and discussion prompts Features discussion of
 research based ideas relating to the contrasts presented in the chapters encouraging readers to connect what they learn
 from the specific cases with the research on these topics Covers a variety of mathematics content areas such as functions
 and algebraic thinking geometry and measurement and data and statistics Provides strategies for implementing the concepts
 in class with ideas and examples of tools based not on how they look but what they can do in your mathematics teaching
 Today s technology offers more possibilities than ever for supporting students in mathematics This book draws upon the
 latest research in technology and math education while providing tools to incorporate effective strategies into curriculum
 right away Audience K 5 educators *Multilingual Learners and Academic Literacies* Daniella Molle,Edynn Sato,Timothy
 Boals,Carol A. Hedgspeth,2015-03-05 Shifting the discourse from a focus on academic language to the more dynamic but less
 researched construct of academic literacies this volume addresses three key questions What constitutes academic literacy
 What does academic literacy development in adolescent multilingual students look like and how can this development be
 assessed What classroom contexts foster the development of academic literacies in multilingual adolescents The contributing
 authors provide divergent definitions of academic literacies and use dissimilar theoretical and methodological approaches to
 study literacy development Nevertheless all chapters reflect a shared conceptual framework for examining academic
 literacies as situated overlapping meaning making practices This framework foregrounds students participation in valued
 disciplinary literacy practices Emphasized in the new college and career readiness standards the notion of disciplinary
 practices allows the contributing authors to bridge the language content dichotomy and take a more holistic as well as
 nuanced view of the demands that multilingual students face in general education classrooms The volume also explores the
 implications of the emphasis on academic literacy practices for classroom instruction research and policy **Proposals for
 Research** Gerry Stahl,2011-01-11 My career has usually been funded by grants Here are some of the proposals I wrote at
 the University of Colorado and at Drexel University Successful grant proposals are tricky to write The ones reproduced here
 might provide helpful examples They may also provide explicit statements of some of the goals of my research over the years
Corpus Linguistics and Cross-Disciplinary Action Research Joanna Baumgart,2021-11-29 In this book Joanna

Baumgart offers a detailed and innovative account of how a mixed methods approach combining corpus linguistics and discourse analysis can shed light on educational practice. Corpus Linguistics and Cross Disciplinary Action Research is based on a 22 000 word corpus of mathematics lessons in a multicultural secondary school in Ireland with the analysis of classroom data supported by insights from reflective meetings with the participating teacher. It demonstrates how examination of video recordings of lessons and reflective conversations facilitate discursive changes in the classroom and increase teacher awareness of classroom interaction. Throughout the role of teacher talk is used as a model in the subject specific discourse into which students are socialized. Baumgart also relates the story of a successful interdisciplinary approach to action research thereby providing an example of how talk and interaction can be examined within wider educational contexts. Building on the premise of the key role which language and talk in particular plays in teaching and learning processes this book will be of keen interest to teacher educators as well as researchers in the fields of corpus linguistics, discourse analysis and educational linguistics.

Language and Mathematics Education Judit N. Moschkovich, 2010-11-01

Issues of language in mathematics learning and teaching are important for both practical and theoretical reasons. Addressing issues of language is crucial for improving mathematics learning and teaching for students who are bilingual, multilingual or learning English. These issues are also relevant to theory studies that make language visible, provide a complex perspective of the role of language in reasoning and learning mathematics. What is the relevant knowledge base to consider when designing research studies that address issues of language in the learning and teaching of mathematics? What scholarly literature is relevant and can contribute to research? In order to address issues of language in mathematics education, researchers need to use theoretical perspectives that integrate current views of mathematics learning and teaching with current views on language, discourse, bilingualism and second language acquisition. This volume contributes to the development of such integrated approaches to research on language issues in mathematics education by describing theoretical perspectives for framing the study of language issues and methodological issues to consider when designing research studies. The volume provides interdisciplinary reviews of the research literature from four very different perspectives: mathematics education, Moschkovich's Cultural Historical Activity Theory, Gutierrez, Sengupta, Irving, Dieckmann's systemic functional linguistics, Schlepppegrell and assessment, Solano Flores. This volume offers graduate students and researchers new to the study of language in mathematics education an introduction to resources for conceptualizing, framing and designing research studies. For those already involved in examining language issues, the volume provides useful and critical reviews of the literature as well as recommendations for moving forward in designing research. Lastly, the volume provides a basis for dialogue across multiple research communities engaged in collaborative work to address these pressing issues.

Research for Educational Change Jill Adler, Anna Sfard, 2016-06-17

Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice. Focussing its discussion within the context of mathematics education, it argues

that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perennial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research

Rough Draft Math

Amanda Jansen, 2023-10-10 Talking and writing about unfinished ideas is vital to learning mathematics but most students only speak up when they think they have the right answer especially middle school and high school students Amanda Jansen and her collaborating teachers have developed a breakthrough approach to address this challenge In Rough Draft Math Revising to Learn Jansen shares the power of infusing math class with the spirit of revision so that students feel comfortable thinking aloud as they problem solve rather than talking only to perform right answers Creating a Community of Learners As part of the rough draft framework a class of students becomes an equitable and inclusive community of thinkers one where students feel safe to engage in discourse while developing mathematical competency and confidence Practical Application of Innovative Ideas This book includes specific teaching techniques and a range of classroom vignettes showing rough draft math in action within a student centered teaching approach Children can develop solutions at their own pace and share thought processes behind their conclusions Classroom Tested Jansen has developed the concept of rough draft math in collaboration with a diverse group of dynamic and reflective teachers Rough Draft Math provides a blueprint for educators to allow free thinking discussion while maintaining the mathematical learning goals Rough Draft Math Jansen shows how to create an energetic classroom culture where students readily participate and share their evolving understanding while engaging in math talk collaborative problem solving and ongoing revision of ideas

Rethinking the Teaching

Mathematics for Emergent Bilinguals Ji Yeong I, Hyewon Chang, Ji-Won Son, 2019-11-09 This book focuses on the role of cultural background in Korean public schools and provides essential insights into how Korean teachers perceive and respond to the transition of their classroom situations with Korean language learners It reveals the perspectives and the practices of Korean teachers especially with regard to multicultural students who struggle with language barriers when learning

mathematics The information provided is both relevant and topical as teaching mathematics to linguistically and culturally diverse learners is increasingly becoming a worldwide challenge

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jun 30 2022 day two of the 2022 world lacrosse women s championship featured 20 teams in 10 games of action three headlines england made a statement in the lone pool a game of the day with a 12 4 win over australia in a rematch of the 2017 bronze medal game megan whittle scored five goals and added four draw controls

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jul 9 2022 women s gallery england takes the bronze on olivia hompe s triple overtime game winner england captured the bronze medal after defeating australia 8 7 in triple overtime in one of the best games of the 2022 world lacrosse women s championship

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mar 24 2013 united kingdom england wales and scotland plan to celebrate a century of women s international lacrosse special events are planned to honor the trail blazers for and special contributors to international women s lacrosse the first ever international match for women was held on the richmond athletic ground just outside london in april

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2019 women s european lacrosse championship the 2019 women s lacrosse european championship was the 11th edition of this tournament it was held in netanya israel from 15 to 25 july 2019 16 teams joined the tournament england is the defending champion

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oct 7 2021 england lacrosse is pleased to announce the england women s senior training squad selected for the forthcoming world lacrosse women s world championships 2022 following a series of trial weekends a 32 player training squad has been put together by head coach phil collier and his team of backroom

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apr 26 2022 this classic book on women s lacrosse has been updated with recent rule changes and the state of the game today women 8217s lacrosse is one of the fastest growing sports in the united states as stick technology advances athleticism increases and rules and regulations adapt even the most experienced players and coaches need to keep current

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the england women s national lacrosse team represents england at women s lacrosse it is governed by the english lacrosse association they were runners up in the women s lacrosse world cup twice and have also hosted the tournament twice the team came 3rd in the 2017 women s lacrosse world cup which has held in oshawa canada 1

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girls club lacrosse girls lacrosse clubs have junior sections offering girls lacrosse from a young age with the junior girls game operating u11 u13 u15 u18 age groups junior sections will compete against other local community lacrosse clubs in leagues and competitions our regional and national academies also provide girls with an

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as adopted by world lacrosse and ratified by all world lacrosse members the world lacrosse women s rule book is compiled and published by world lacrosse wl in addition to the rules guidance sections in italics are provided to give clarity and rule interpretations for umpires coaches and players

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women s field english spanish reglamento de lacrosse femenino men s box sixes spanish las reglas oficiales de sixes lacrosse additional rules wheelchair mixed field equipment legal stick list rule changes

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please help update this article to reflect recent events or newly available information april 2021 women s lacrosse or girls lacrosse sometimes shortened to lax is a field sport played at the international level with two opposing teams of ten players each 12 players per team at the u s domestic level

england lacrosse to use 2021 22 world lacrosse women s rules - Aug 11 2022

jun 10 2022 nlc has made this decision because of timescales related to world lacrosse s publishing of their latest rule book including the new rules instead these latest january 2022 rules will be implemented for the 2023 24 season to view the latest england lacrosse approved women s rules [click here](#)

new women s rules england lacrosse - Jan 16 2023

national lacrosse committee has voted in favour of implementing the world lacrosse women s field rule changes within the domestic game for the upcoming 2020 21 season the domestic game includes england lacrosse leagues regional school and university pending approval from bucs rules regulations meeting competitions

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in general the official rules of sixes lacrosse apply equally to both the women s and men s game where the official english language version march 2020 1st edition page 6 the game sixes lacrosse is played by two teams of six players each the purpose of each team is to score by causing

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usa lacrosse acknowledgement the ncaa acknowledges usa lacrosse the national governing body of men s and women s lacrosse and the former united states women s lacrosse association for their respective roles in developing and publishing the rules of women s lacrosse since 1932 the ncaa rules book was developed based on

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