

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

Anne Watson, Minoru Ohtani



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 A Handbook of Mathematical Discourse Charles Wells, 2003

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

[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

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

Multilingual Learners and Academic Literacies Daniella Molle, Edynn Sato, Timothy Boals, Carol A. Hedgpeth, 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

Mathematics Instruction and Tasks in a PLC at Work®, Second Edition Mona Toncheff, Timothy D. Kanold, Sarah Schuhl, Bill Barnes, Jennifer Deinhart, Jessica Kanold-McIntyre, 2023-08-15 Build collective teacher efficacy and students mathematical thinking using the Mathematics in a PLC at Work™ lesson design process This second edition of the popular Mathematics Instruction and Tasks book guides preK 12 teacher teams in ensuring improved mathematics achievement Gain new and enhanced understanding of research affirmed instructional routines and learn how to efficiently elicit high levels of student engagement and self efficacy Implement instructional strategies and methods of teaching mathematics in a professional learning community This book will help preK 12 mathematics teachers and teacher teams Identify essential mathematics content standards students learn during a unit Understand the importance of communicating the why of the essential mathematics learning standards to students Plan for the use of balanced rigor and

mathematical routines to teach each content standard during instruction Use a balance of appropriate mathematics activities and tasks needed to develop conceptual understanding procedural fluency and application of mathematical concepts and skills Implement instructional math routines that ensure the formative learning of all students during lessons Contents Preface Introduction The Mathematics at Work™ Lesson Design Framework Chapter 1 Essential Learning Standards The Why of the Lesson Chapter 2 Prior Knowledge Routines Chapter 3 Mathematics Language Routines Chapter 4 A Balance of Mathematical Tasks Chapter 5 Mathematical Discourse Routines Chapter 6 Lesson Closure Routines Chapter 7 High Quality Tier 1 Mathematics Intervention Chapter 8 Analyzing the Effectiveness of Mathematics Instruction Epilogue Appendix A Appendix B Cognitive Demand Level Task Analysis Guide Appendix C Mathematics Instruction and Tasks in a PLC at Work Protocols and Tools

Teaching Mathematics in Multilingual Classrooms J.B. Adler, 2001-06-30 The author captures three inter related dilemmas that lie at the heart of teaching mathematics in multilingual classrooms code switching mediation and transparency She provides a sharp analysis and strong theoretical grounding pulling together research related to the relationship between language and mathematics communicating mathematics and mathematics in bi multilingual settings and offers a direct challenge to dominant research on communication in mathematics classrooms

Constructive Empiricism P. Dicken, 2010-07-16 Constructive empiricism is not just a view regarding the aim of science it is also a view regarding the epistemological framework in which one should debate the aim of science This is the focus of this book not with scientific truth but with how one should argue about scientific truth

Task Design In Mathematics Education Anne Watson, Minoru Ohtani, 2015-10-26 THIS BOOK IS AVAILABLE AS OPEN ACCESS BOOK ON SPRINGERLINK This open access book is the product of ICMI Study 22 Task Design in Mathematics Education The study offers a state of the art summary of relevant research and goes beyond that to develop new insights and new areas of knowledge and study about task design The authors represent a wide range of countries and cultures and are leading researchers teachers and designers In particular the authors develop explicit understandings of the opportunities and difficulties involved in designing and implementing tasks and of the interfaces between the teaching researching and designing roles recognising that these might be undertaken by the same person or by completely separate teams Tasks generate the activity through which learners meet mathematical concepts ideas strategies and learn to use and develop mathematical thinking and modes of enquiry Teaching includes the selection modification design sequencing installation observation and evaluation of tasks The book illustrates how task design is core to effective teaching whether the task is a complex extended investigation or a small part of a lesson whether it is part of a curriculum system such as a textbook or promotes free standing activity whether the task comes from published source or is devised by the teacher or the student

Exploring Mathematics and Science Teachers' Knowledge Hamsa Venkat, Marissa Rollnick, John Loughran, Mike Askew, 2014-05-09 Globally mathematics and science education faces three crucial challenges an increasing need for mathematics and science graduates a declining enrolment of

school graduates into university studies in these disciplines and the varying quality of school teaching in these areas. Alongside these challenges internationally more and more non specialists are teaching mathematics and science at both primary and secondary levels and research evidence has revealed how gaps and limitations in teachers content understandings can lead to classroom practices that present barriers to students learning. This book addresses these issues by investigating how teachers content knowledge interacts with their pedagogies across diverse contexts and perspectives. This knowledge practice nexus is examined across mathematics and science teaching traversing schooling phases and countries with an emphasis on contexts of disadvantage. These features push the boundaries of research into teachers content knowledge. The book s combination of mathematics and science enriches each discipline for the reader and contributes to our understandings of student attainment by examining the nature of specialised content knowledge needed for competent teaching within and across the two domains. Exploring Mathematics and Science Teachers Knowledge will be key reading for researchers, doctoral students and postgraduates with a focus on Mathematics Science and teacher knowledge research.

Visual Mathematics and Cyberlearning Dragana Martinovic, Viktor Freiman, Zekeriya Karadag, 2012-12-24. This first book in the series will describe the Net Generation as visual learners who thrive when surrounded with new technologies and whose needs can be met with the technological innovations. These new learners seek novel ways of studying such as collaborating with peers, multitasking as well as use of multimedia, the Internet and other Information and Communication Technologies. Here we present mathematics as a contemporary subject that is engaging, exciting and enlightening in new ways. For example, in the distributed environment of cyber space, mathematics learners play games, watch presentations on YouTube, create Java applets of mathematics simulations and exchange thoughts over the Instant Messaging tool. How should mathematics education resonate with these learners and technological novelties that excite them?

Abstracts of The First Sourcebook on Asian Research in Mathematics Education Bharath Sriraman, Jinfa Cai, Kyeonghwa Lee, Lianghuo Fan, Yoshinori Shimizu, Chap Sam Lim, K. Subramaniam, 2013-04-01. Mathematics and Science education have both grown in fertile directions in different geographic regions. Yet the mainstream discourse in international handbooks does not lend voice to developments in cognition, curriculum, teacher development, assessment policy and implementation of mathematics and science in many countries. Paradoxically, in spite of advances in information technology and the flat earth syndrome, old distinctions and biases between different groups of researchers persist. In addition, limited accessibility to conferences and journals also contribute to this problem. The International Sourcebooks in Mathematics and Science Education focus on underrepresented regions of the world and provides a platform for researchers to showcase their research and development in areas within mathematics and science education. The First Sourcebook on Asian Research in Mathematics Education (China, Korea, Singapore, Japan, Malaysia and India) provides the first synthesized treatment of mathematics education that has both developed and is now prominently emerging in the Asian and South Asian world. The

book is organized in sections coordinated by leaders in mathematics education in these countries and editorial teams for each country affiliated with them The purpose of unique sourcebook is to both consolidate and survey the established body of research in these countries with findings that have influenced ongoing research agendas and informed practices in Europe North America and other countries in addition to serving as a platform to showcase existing research that has shaped teacher education curricula and policy in these Asian countries The book will serve as a standard reference for mathematics education researchers policy makers practitioners and students both in and outside Asia and complement the Nordic and NCTM perspectives

Culturally Responsive Mathematics Education Brian Greer, Swapna Mukhopadhyay, Arthur B. Powell, Sharon Nelson-Barber, 2009-05-20 This critical new collection presents mathematics education from a culturally responsive perspective and offers a broad perspective of mathematics as a significant liberating intellectual force in our society

Oxford Studies in Metaethics Russ Shafer-Landau, 2006-05-11 The contents of the inaugural volume of Oxford Studies in Metaethics nicely mirror the variety of issues that make this area of philosophy so interesting The volume opens with Peter Railton's exploration of some central features of normative guidance the mental states that underwrite it and its relationship to our reasons for feeling and acting In the next offering Terence Cuneo takes up the case against expressivism arguing that its central account of the nature of moral judgments is badly mistaken Terence Horgan and Mark Timmons two of the most prominent contemporary expressivists then offer their take on how expressivism manages to avoid a different objection that of collapsing into an objectionable form of relativism Daniel Jacobson and Justin D Arms next offer an article that continues their research program devoted to exploring the extent to which values might depend upon or be constrained by human psychology Ralph Wedgwood engages in some classical metaethical conceptual analysis seeking to explicate the meaning of ought Mark van Roojen then contributes a new take on the Moral Twin Earth Argument a prominent anti realist puzzle advanced in the early 1990s by Horgan and Timmons Allan Gibbard next presents his latest thoughts on the nature of moral feelings and moral concepts crucial elements in the overall project of defending the expressivism he is so well known for James Dreier then takes up the details of Gibbard's recent efforts to provide a solution to what many view as the most serious difficulty for expressivism namely the Frege Geach problem Dreier identifies difficulties in Gibbard's expressivist account and offers a suggestion for their solution Sergio Tenenbaum explores the concept of a direction of fit relied on so heavily nowadays in accounts of moral motivation Nadeem Hussain and Nishiten Shah then consider the merits of Christine Korsgaard's influential critique of moral realism T M Scanlon's widely discussed buck passing account of value attracts the critical eye of Pekka Vaurio who attempts to reveal the reasons that we might resist it Derek Parfit's contribution concludes this volume with an article on normativity that presents his most recent thinking on this fundamental notion

Essays in Collaborative Dynamic Geometry Gerry Stahl, 2017-02-15 This volume includes analyses of student teams using the VMT environment with multi user GeoGebra These studies are related to the presentations in Translating Euclid and

Constructing Dynamic Triangles Together These essays document the most recent stage of the Virtual Math Teams Project

Global Perspectives and Practices for Reform-Based Mathematics Teaching Kartal, Ozgul, Popovic, Gorjana, Morrissey, Susie, 2022-04-22 Reform based mathematics has become a popular topic in the education field as this teaching emphasizes classroom discourse and instructional goals related to student engagement and an understanding of mathematical reasoning concepts and procedures using instructional practices that build on students informal knowledge of mathematics It also connects mathematics with other disciplines and the real world and provides opportunities for students to contribute and invent their own methods during problem solving Further study on the best practices benefits and challenges of implementing this teaching into education is required

Global Perspectives and Practices for Reform Based Mathematics Teaching explores international perspectives on diverse reform based practices in teaching and learning mathematics describes challenges and issues for teachers and teacher educators promotes reflection and academic discussion at various levels and in various educational systems and raises questions for the field of mathematics education Covering a range of topics such as teacher preparation programs and integrated learning spaces this reference work is ideal for academicians practitioners researchers instructors educators and students

Whispering the Secrets of Language: An Psychological Quest through **Mathematical Discourse**

In a digitally-driven earth wherever screens reign supreme and instant transmission drowns out the subtleties of language, the profound techniques and mental nuances concealed within words often move unheard. However, nestled within the pages of **Mathematical Discourse** a fascinating literary treasure sporting with organic emotions, lies a fantastic quest waiting to be undertaken. Penned by a skilled wordsmith, that wonderful opus invites viewers on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within ab muscles cloth of each word. Within the psychological depths of this touching review, we shall embark upon a honest exploration of the book is primary styles, dissect their charming writing fashion, and yield to the effective resonance it evokes deep within the recesses of readers hearts.

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Mathematical Discourse Introduction

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