

Young Mathematicians At Work 1 Fosnot Catherine Twomey Dolk Maarten

Mine the Gap for Mathematical Understanding, Grades 3-5 Making Number Talks Matter The Effective Principal New Horizons in Mathematics and Science Education ENC Focus Teaching Children Mathematics Sharing Submarine Sandwiches, Grades 5-8 Working with the Number Line, Grade 2 Working with the Ratio Table, Grades 5-8 Minilessons for Operations with Fractions, Decimals, and Percents, Grades 5-8 Exploring Playgrounds, Grades 5-8 Mathematics for Elementary School Teachers Number Sense Routines Now I Get it Bibliographic Guide to Education 2003 Taking Inventory, Grades K-1 Algebra and Algebraic Thinking in School Mathematics Annual Meeting Program - American Educational Research Association The British National Bibliography Mathematics Teaching in the Middle School John SanGiovanni Cathy Humphreys Barbara Scott Nelson Sherrin B. Hersch Antonia Cameron Antonia Cameron Sherrin B. Hersch Tom Bassarear Jessica F. Shumway Susan O'Connell GK Hall Antonia Cameron Carole E. Greenes American Educational Research Association Arthur James Wells

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being an effective math educator is one part based on the quality of the tasks we give one part how we diagnose what we see and one part what we do with what we find yet with so many students and big concepts to cover it can be hard to slow down enough to look for those moments when students responses tell us what we need to know about next best steps in this remarkable book john sangiovanni helps us value our students misconceptions and incomplete understandings as much as their correct ones because it is the gap in their understanding today that holds the secrets to planning tomorrow's best teaching sangiovanni lays out 180 high quality tasks aligned to the standards and big ideas of grades 3-5 mathematics including addition and subtraction of multi-digit whole numbers multiplication and division of single and multi-digit whole numbers foundational fraction concepts foundational decimal concepts and operations with fractions and decimals the tasks are all downloadable so you can use or modify them for instruction and assessment each big idea offers a starting task followed by what makes it a high quality task what you might anticipate before students work with the task 4 student examples of the completed task showcasing a distinct gap commentary on what precisely counts for mathematical understanding and the next instructional steps commentary on the misconception or incomplete understanding so you learn why the student veered off course three additional tasks aligned to the mathematics topic and ideas about what students might do with these additional tasks it's time to break our habit of rushing into re-teaching for correctness and instead get curious about the space between right and wrong answers mine the gap for mathematical understanding is a book you will return to again and again to get better at selecting tasks that will uncover students reasoning better at discerning the quality and clarity of students understanding and better at planning teaching based on the gaps you see

making the transition to student-centered learning begins with finding ways to get students to share their thinking something that can be particularly challenging for math class authors ruth parker and cathy humphreys introduce making number talks matter developing mathematical practices and deepening understanding grades 3-10 taking the readers into classrooms where their number talks routines are taught parker and humphreys apply their 15-minute lessons to inspire and initiate math talks through vignettes in the book you'll meet other teachers learning how to listen closely to students and how to prompt them into figuring out solutions to problems you will learn how to make on-the-spot decisions continually advancing and deepening the conversation making number talks matter includes sample problems filled with a range of number talks problems 10-15 minute warm-up routines that lend themselves to mental math and comparison of strategies navigating rough spots learn how to create a safe environment for tricky or challenging student discussions that can arise when talking through problems and sharing ideas responding to mistakes ways to handle misconceptions and mathematical errors that come up during the course of number talk conversations making number talks matter is filled with teaching tips for honoring student contributions while still correcting errors and teaching concepts while nudging independent thinking whether you are an elementary middle school or

high school teacher through daily practice and open conversation you can build a solid foundation for the study of mathematics and make number talks matter

this volume examines how effective instructional leadership by principals and other school administrators is affected by their own knowledge and beliefs about learning teaching and subject matter using mathematics as a subject focus the authors examine several specific aspects of instructional leadership such as teacher supervision and classroom observation curriculum selection and student assessment nelson and sassi provide detailed portraits of administrators at work illuminating key decision making situations and the actions they choose to take this important volume looks at a new image of the school principal one that is tied more closely to learning and teaching the authors discuss and offer important implications for mathematics education educational policy and school improvement

in working with the number line students construct a number line initially as a model to represent a measurement situation and then as a model to represent their computational strategies

in their series of professional books for teachers young mathematicians at work catherine twomey fosnot and maarten dolk described mathematics in the city an innovative project where teachers helped young children construct a deep understanding of number and operation in a math workshop environment now they and two colleagues from the project have developed a flexible video based digital context for inquiry into the teaching and learning of mathematics that will change how professional development is conducted designed for you the workshop leader or college instructor the working with the ratio table resource package enables your in or preservice teachers to not only watch but interact with video that depicts classroom teachers as they listen to question and interpret students thinking develop connections between mathematical ideas and strategies and ultimately develop vibrant mathematical communities in their classrooms the resource package includes three valuable components a completely interactive cd rom where your workshop participants can explore independently or under your guidance videos of instruction and assessment sample children s work over time to analyze development take and save notes on what they see capture specific frames or footage and then email their captured video clips and notes to other members of your professional development workshop the context of the classroom will be at the fingertips of your participants for exploration a professional development overview manual that provides general advice on how you can use the cd rom for staff development a facilitator s guide whose field tested content is specific to the cd rom and includes helpful suggestions for using video clips and student examples on the cd to design rich professional development experiences sample dialogue to help you anticipate what your participants might say tips for facilitating discussions among teachers and descriptions of the mathematical ideas being explored in working with the ratio table your workshop participants will observe sixth graders as they construct some of the big ideas related to fractions making connections between ratios and equivalence and uncovering landmark division strategies like comparison through common denominators by studying the use of carefully crafted problems designed both to generate a range of solution strategies and to highlight the power of ratio tables and other models for division teachers will discover what a valuable tool real life contexts are for building a solid foundation in mathematics system requirements for cd rom windows pc pentium ii processor 266mbz or higher windows 98 or higher 64 mb ram more recommended svga color display or better 4x cd rom drive or faster sound card 16 bit flash tm player and acrobat reader r quicktime 6.0 or higher mac powerpc processor g3 233mbz or higher system 9.2 or 10.2 or higher 64 mb ram more recommended svga color display or better 4x cd rom drive or faster sound card 16 bit flash tm player and acrobat reader r quicktime 6.0 or higher please note cd rom is not compatible with mac os x 10.7

cd roms contain lessons and videos of sixth seventh and eighth grade classrooms

young mathematicians at work exploring playgrounds a context for multiplication of fractions grades 5-8 contains cd box 4 39

mathematics for elementary school teachers 3 e offers pre service teachers a comprehensive mathematics course designed to foster concept development through examples investigations and explorations visual icons throughout the main text allow instructors to easily connect the text to the hands on activities in the corresponding explorations manual classroom connections in both the exposition and the exercises guide students to connect the mathematics being taught with effective teaching strategies students must analyze educational mathematics research evaluate common student errors and see alternative solution methods enabling them to better prepare for their future teaching careers investigations encourage students to think about a topic before discussing the math or viewing examples these can be used as classroom discussion questions for independent reading or as review multiple strategies presented throughout the examples and exposition of the text allow students to analyze numerous approaches to solving problems

just as athletes stretch their muscles before every game and musicians play scales to keep their technique in tune mathematical thinkers and problem solvers can benefit from daily warm up exercises jessica shumway has developed a series of routines

designed to help young students internalize and deepen their facility with numbers the daily use of these quick five ten or fifteen minute experiences at the beginning of math class will help build students number sense students with strong number sense understand numbers ways to represent numbers relationships among numbers and number systems they make reasonable estimates compute fluently use reasoning strategies e g relate operations such as addition and subtraction to each other and use visual models based on their number sense to solve problems students who never develop strong number sense will struggle with nearly all mathematical strands from measurement and geometry to data and equations in number sense routines jessica shows that number sense can be taught to all students dozens of classroom examples including conversations among students engaging in number sense routines illustrate how the routines work how children s number sense develops and how to implement responsive routines additionally teachers will gain a deeper understanding of the underlying math the big ideas skills and strategies children learn as they develop numerical literacy

o connell provides a practical guide to teaching math for understanding and clarity

the bibliographic guide to education lists recent publications cataloged during the past year by teachers college columbia university supplemented by publications in the field of education cataloged by the research libraries of the new york public library selected on the basis of subject headings non book materials including theses are included in this guide with the exception of serials all aspects and levels of education are represented in this guide including such areas as american elementary and secondary education higher and adult education early childhood education history and philosophy of education applied pedagogy international and comparative education educational administration education of the culturally disadvantaged and physically handicapped nursing education and education of minorities and women also well covered are the administrative reports of departments of education for various countries and for u s states and large cities the teachers college collection covers over 200 distinct educational systems works in all languages are included the bibliographic guide to education serves in part as an annual supplement to the dictionary catalog of the teachers college library columbia university g k hall co 1970 and supplements first supplement 1971 second supplement 1973 third supplement 1977

chronicles the journey of teacher jodi weisbart and k 1 class as they inventory materials in their classroom and how they develop number sense counting strategies and the big ideas underpinning place value

examines the status of algebra in our schools and the changes that the curriculum has undergone over the past several years includes successful classroom practises for developing algebraic reasoning abilities and improving overall understanding

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