

The Fostering Algebraic Thinking Toolkit

A Guide for Staff Development



- Introduction and Analyzing Written Student Work
- Asking Questions of Students
- Documenting Patterns of Student Thinking
- Listening to Students

Mark Driscoll

In collaboration with Judith Zawojewski,
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The Fostering Algebraic Thinking Toolkit

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The Fostering Algebraic Thinking Toolkit: Introduction and analyzing written student work Mark J.

Driscoll, Judith Zawojewski, Johannah Nikula, Andrea Humez, 2001 Part of the Fostering Algebraic Thinking series this module gives participants an opportunity to analyze students written work for evidence of algebraic thinking [The Fostering Algebraic Thinking Toolkit: Asking questions of students](#) Judith Zawojewski, Andrea Humez, Mark J. Driscoll, Johannah

Nikula, Lynn Goldsmith, James Hammerman, 2001 Together with the accompanying video this module offers a change both in the type of student data considered from written to real time and in the emphasis of the module from understanding to fostering student thinking **Fostering Algebraic Thinking Toolkit Bundle** Mark J. Driscoll, 2009-08-15 This set of professional development materials helps teachers identify describe and foster algebraic thinking in their students The toolkit features classroom video four complete modules containing notes for facilitators and reproducibles for workshop participants Each module concentrates on a different kind of classroom evidence to share and analyze with colleagues Analyzing Written Student Work Asking Questions of Students Documenting Patterns of Student Thinking Listening to Students [The Fostering Algebraic Thinking Toolkit](#) Mark J. Driscoll, 2001 *The Fostering Algebraic Thinking Toolkit: Documenting patterns of student thinking* Mark J. Driscoll, Judith Zawojewski, Andrea Humez, Lynn Goldsmith, Johannah

Nikula, James Hammerman, 2001 Participants will find in this module more written student work to analyze but the focus instead is on patterns of thinking across a class of students *Fostering Geometric Thinking* Mark Driscoll, Rachel Wing Dimatteo, Michael Egan, Johannah Nikula, 2017-05-12 The Trends in International Mathematics and Science Study has shown that American schools have consistently helped students understand algebraic and statistical concepts leading to high achievement internationally Now it s time to do the same for geometry Mark Driscoll author of the powerful and popular Fostering Algebraic Thinking takes up the challenge and leads you to new research based ways to improve how your students conceptualize and apply geometric ideas With Fostering Geometric Thinking any math teacher can discover essential practical ideas for helping students cultivate geometric habits of mind that lead to success in this crucial mathematical subject The book focuses on rigorous problem based teaching that encourages students to deepen their thinking in three key geometric strands geometric properties geometric transformations measurement of geometric objects Fostering Geometric Thinking shows you how the interplay of these strands helps students devise multiple solutions and develop a broader sense of geometric principles It s loaded with helpful resources including engaging problems to use in your classroom examples of student solutions to these problems transcripts of classroom interactions online resources featuring in the field footage of students working through open ended problems highlighted in the book Geometry is a vital component of mathematical understanding and it s time that it received the same attention that algebra and statistics do With engaging problems and straightforward suggestions that can help students deepen recognize and describe their thinking Fostering Geometric

Thinking is the resource you need to ensure that when it comes to geometry your students know all the angles

Secondary Lenses on Learning Participant Book Catherine Miles Grant, 2009-07-08 This participant book in combination with the facilitator's guide forms a comprehensive professional development program designed to improve the efforts of site based mathematics leadership teams for middle and high schools Secondary Lenses on Learning prepares leaders to explore concepts in middle and high school algebra as a window into content instruction and assessment You will learn how to assess the strengths and needs of your mathematics programs set goals and generate plans for ongoing improvement by engaging in extended explorations and conversations based on readings problem based activities cases and videos

Mathematics Teacher Noticing Miriam Sherin, Vicki Jacobs, Randy Philipp, 2011-02-01 Mathematics Teacher Noticing is the first book to examine research on the particular type of noticing done by teachers how teachers pay attention to and make sense of what happens in the complexity of instructional situations In the midst of all that is happening in a classroom where do mathematics teachers look what do they see and what sense do they make of it This groundbreaking collection begins with an overview of the construct of noticing and the various historical theoretical and methodological perspectives on teacher noticing It then focuses on studies of mathematics teacher noticing in the context of teaching and learning and concludes by suggesting links to other constructs integral to teaching By collecting the work of leaders in the field in one volume the editors present the current state of research and provide ideas for how future work could further the field The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

Fostering Geometric Thinking Mark J. Driscoll, Rachel Wing DiMatteo, Johannah Nikula, Michael Egan, 2007 Fostering Geometric Thinking shows you how the interplay of these strands helps students devise multiple solutions and develop a broader sense of geometric principles It is loaded with helpful resources including engaging problems to use in your classroom examples of student solutions to these problems transcripts of classroom interactions and a DVD featuring in the field footage of students working through open ended problems highlighted in the book Geometry is a vital component of mathematical understanding and it's time that it received the same attention that algebra and statistics do With engaging problems and straightforward suggestions that can help students deepen recognize and describe their thinking Fostering Geometric Thinking is the resource you need to ensure that when it comes to geometry your students know all the angles

BOOK JACKET *The Fostering Geometric Thinking Toolkit* Mark J. Driscoll, Rachel Wing DiMatteo, Johannah Nikula, 2008 Based on the popular Fostering Geometric Thinking the Toolkit's 20 two hour sessions provide a year's worth of math PD for middle and secondary teachers Its facilitator and participant friendly sessions cover the key topics of Fostering Geometric Thinking geometric properties transformations and measurement With the Fostering Geometric Thinking Toolkit you'll lead teachers through hands on opportunities to develop new understandings of middle and secondary students geometric thinking through a field tested geometric habits of mind

framework Broaden and express their own geometric thinking by solving rich problems Observe students thinking and problem solving through in the classroom footage Practice analyzing student work Apply all they ve learned in the sessions to engage students thinking more effectively PUBLISHER S WEBSITE The Professional Education and Development of Teachers of Mathematics Ruhama Even, Deborah Loewenberg Ball, 2008-11-16 The premise of the 15th ICMI Study is that teachers are key to students opportunities to learn mathematics What teachers of mathematics know care about and do is a product of their experiences and socialization together with the impact of their professional education The Professional Education and Development of Teachers of Mathematics assembles important new international work development research theory and practice concerning the professional education of teachers of mathematics As it examines critical areas to reveal what is known and what significant questions and problems warrant collective attention the volume also contributes to the strengthening of the international community of mathematics educators The Professional Education and Development of Teachers of Mathematics is of interest to the mathematics education community as well as to other researchers practitioners and policy makers concerned with the professional education of teachers *Designing Professional Development for Teachers of Science and Mathematics* Susan Loucks-Horsley, 2003-02-14 This New Edition collects and brings together in one place what has been learned from professional developers efforts across the country in order to make the framework principles and strategies of the first edition come to life This edition deepens our understanding of professional development through further research and new resources The original purpose of this book to put a competent and caring teacher in every classroom has yet to be fulfilled and is more urgent now than ever The authors provide one stop shopping for busy practitioners that incorporates the most up to date research gleaned from the broadest possible research base as well as robust and rich descriptions of effective professional development programmes It incorporates the growing knowledge base about learning teaching the nature of science and mathematics professional development and change The authors scanned the field of professional development in mathematics and science over the last five years noting what has changed and what has not dissected the original framework updated examples incorporate what authors have learned as well as advances in the field This essential primer offers a framework that considers key inputs and combines strategies uniquely tailored to their environment and goals summarizes key knowledge and best practices provides guidance on assessing one s context describes strategies that go beyond most common workshops and institutes provides real life examples of how elements of the framework were used to create professional development initiatives offers references and resources for further exploration and inquiry Highlights of the Second Edition include New design framework that incorporates standards student learning data and evaluation techniques More guidance for assessing context using data More strategies for professional development including lesson study aligning and selecting curriculum and demonstration lessons Stronger real life examples including new uses of technology and data driven designs An essential resource for educators who design conduct and support

professional development for teachers of mathematics and science including staff developers principals teacher leaders curriculum supervisors and leadership teams College and university faculty in education science and mathematics will also find this to be a useful compendium of ideas for improving mathematics and science education Fostering Algebraic Thinking Mark J. Driscoll,1999 Fostering Algebraic Thinking is a timely and welcome resource for middle and high school teachers hoping to ease their students transition to algebra **Handbook of Research on Teaching** Drew Gitomer,Courtney Bell,2016-05-19 The Fifth Edition of the Handbook of Research on Teaching is an essential resource for students and scholars dedicated to the study of teaching and learning This volume offers a vast array of topics ranging from the history of teaching to technological and literacy issues In each authoritative chapter the authors summarize the state of the field while providing conceptual overviews of critical topics related to research on teaching Each of the volume s 23 chapters is a canonical piece that will serve as a reference tool for the field The Handbook provides readers with an unaparalleled view of the current state of research on teaching across its multiple facets and related fields **The Handbook of Mathematics Teacher Education: Volume 3** ,2008-01-01 This Handbook of Mathematics Teacher Education the first of its kind addresses the learning of mathematics teachers at all levels of schooling to teach mathematics and the provision of activity and programmes in which this learning can take place It consists of four volumes VOLUME 3 Participants in Mathematics Teacher Education Individuals Teams Communities and Networks addresses the who question of mathematics teacher education The authors focus on the various kinds of participants in mathematics teacher education professional development and reform initiatives The chapters deal with prospective and practising teachers as well as with teacher educators as learners and with schools districts and nations as learning systems Mathematics Professional Development Hilda Borko,Jennifer Jacobs,Karen Koellner,Lyn E. Swackhamer,2015 This resource will help school leaders and other professional development providers conduct ongoing structured learning opportunities for mathematics teachers K 12 The authors present models for professional development and the preparation of PD leaders designed and field tested as part of two research projects supported by the National Science Foundation The Problem Solving Cycle model and the Mathematics Leadership Preparation model focus on topics of primary interest to mathematics teachers mathematics content classroom instruction and student learning They are intentionally designed so that they can be tailored to meet the needs and interests of participating teachers and schools Through engaging vignettes the authors describe the models summarize key research findings and share lessons learned The book also includes detailed examples of workshop activities for both teachers and PD leaders Book Features Supports teachers learning and teaching of math in line with current reform principles Develops math teachers capacity to foster students learning of the CCSSM content and practices Prepares teacher leaders to facilitate professional development Illustrates the use of video as part of professional development Includes examples of workshop activities for teachers and teacher leaders This book presents an approach to teacher professional

learning that integrates many popular ideas in the field such as teacher leadership evidence based practice and teacher learning communities It avoids the superficiality that plagues so many treatments of these themes offering readers depth substance detail and clarity This will surely be a valuable resource for educational leaders and professional development specialists seeking research based ways to assist teachers to engage effectively in ambitious mathematics instruction that enables students to understand mathematics deeply and to use it effectively to solve problems Edward A Silver William A Brownell Collegiate Professor of Education Professor of Mathematics University of Michigan Mathematics Professional Development delivers the details we need but can rarely access The authors detail a research based principled approach to school based professional development that supports teachers in taking on the continual improvement of their practice Megan Franke professor UCLA *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 **Second Handbook of Research on Mathematics Teaching and Learning** Frank K. Lester,2007-02-01 The audience remains much the same as for the 1992 Handbook namely mathematics education researchers and other scholars conducting work in mathematics education This group includes college and university faculty graduate students investigators in research and development centers and staff members at federal state and local agencies that conduct and use research within the discipline of mathematics The intent of the authors of this volume is to provide useful perspectives as well as pertinent information for conducting investigations that are informed by previous work The Handbook should also be a useful textbook for graduate research seminars In addition to the audience mentioned above the present Handbook contains chapters that should be relevant to four other groups teacher educators curriculum developers state and national policy makers and test developers and others involved with assessment Taken as a whole the chapters reflects the mathematics education research community s willingness to accept the challenge of helping the public understand what mathematics education research is all about and what the relevance of their research findings might be for those outside their immediate community **Understanding Geometry for a Changing World**

Timothy Craine, 2009 Geometry is currently enjoying a revival partly as a result of the emergence of interactive geometry software Articles in this yearbook examine expanding visions of geometry the latest thinking about the development of students geometric learning and new perspectives on effective practises for teaching geometry in elementary through high school The yearbook includes a CD with lessons activity sheets application files video clips and Web links **Metodología**

para evaluar competencias matemáticas. El pensamiento algebraico Nelly Rigaud Téllez, Roberto Blanco Bautista, 2023-05-09 El objetivo del libro es explorar la factibilidad de medir el potencial de aspectos del pensamiento algebraico en estudiantes de ingeniería más allá de mecanizaciones y a través de diferentes contextos con el propósito de generar información que aporte orientación para tareas educativas en universidades permitir la determinación e integración de proyectos detectar formas innovadoras de enseñanza y con ello mejorar oportunidades de aprendizaje Se generan indicadores que proporcionan evidencia de manejo de estrategias de solución perfil de rendimiento apreciación de potencia y monitoreo de resultados usados exitosamente en una prueba piloto Los indicadores pueden ser empleados en distintas universidades debido a su organización factible

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The Fostering Algebraic Thinking Toolkit Introduction

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