

Uncovering STUDENT THINKING in MATHEMATICS



25



**Formative
Assessment
Probes**

CHERYL M. ROSE

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Foreword by ANNE DAVIES

Uncovering Student Thinking In Mathematics 25 Formative Assessment Probes

Cheryl Rose Tobey, Emily R. Fagan



Uncovering Student Thinking In Mathematics 25 Formative Assessment Probes:

Uncovering Student Thinking in Mathematics Cheryl M. Rose, Leslie Minton, Carolyn Arline, 2006-12-20 Uncovering Student Thinking in Mathematics shows us ways to listen and observe children and their mathematical understandings so we can find better ways to help them take their next learning steps This book is a gift to educators who seek to understand before being understood From the Foreword by Anne Davies A fresh and unique resource for mathematics teachers who recognize the importance of carefully establishing the starting points of instruction in terms of what students already know The collection of assessment probes is inventive engaging for students and invaluable for teachers Richard H Audet Associate Professor Roger Williams University Use formative assessment probes to take the guesswork out of mathematics instruction and improve learning Students learn at varying rates and if a misconception in mathematics develops early it may be carried from year to year and obstruct a student s progress To identify fallacies in students preconceived ideas Uncovering Student Thinking in Mathematics offers educators a powerful diagnostic technique in the form of field tested assessment probes brief easily administered activities to determine students thinking on core mathematical concepts Designed to question students conceptual knowledge and reveal common understandings and misunderstandings the probes generate targeted information for modifying mathematics instruction allowing teachers to build on students existing knowledge and individually address their identified difficulties Linked to National Council of Teachers of Mathematics standards this invaluable handbook assists educators with 25 ready to use mathematical probes Teacher guides for implementing each probe at any grade level Examples of typical obstacles and faulty thinking demonstrated by students This rich resource combines standards educational research findings and practical craft knowledge to help teachers deliver informed instruction that strengthens all students learning and achievement in mathematics

Uncovering Student Thinking in Mathematics, Grades K-5

Cheryl Rose Tobey, Leslie Minton, 2010-10-04 Finally a book to help teachers differentiate math instruction using their own individualized current data The practical simple to use formative assessments allow teachers to identify areas of difficulty correct misconceptions and guide learning Renee Peoples Fourth Grade Teacher and K 5 District Math Facilitator Swain County Schools NC This book offers ways for teachers to gain more insight into what their students know and don t know Carol Amos Teacher Leader Mathematics Coordinator Twinfield Union School VT 25 targeted probes that gauge students mathematics comprehension in Grades K 5 Quickly identify each child s level of understanding with these easy to use assessment tools This sequel to the bestseller Uncovering Student Thinking in Mathematics answers teachers requests for more strategies to monitor classroom learning in real time The authors provide 25 field tested probes brief easily administered assessments that can pinpoint students areas of struggle in mathematics Aligned with NCTM standards these grade appropriate probes are easy to implement immediately and help teachers Build on children s current understandings while addressing their identified difficulties Quickly and objectively evaluate specific math skills Determine students common

mistakes and obstacles to learning math Measure learners abilities and compare them to performance objectives Tobey and Minton include their proprietary QUEST cycle model which provides teachers with the necessary tools to make sound instructional choices and improve all students mathematical knowledge *Uncovering Student Thinking in Mathematics*

Cheryl M. Rose, Leslie Minton, Carolyn Arline, 2008

Uncovering Student Thinking About Mathematics in the Common Core, Grades 3-5 Cheryl Rose Tobey, Emily R. Fagan, 2013-11-27

Take the guesswork out of grades 3 5 math assessment Expertly pinpoint and reverse your students common math difficulties with this must have resource from best selling authors Cheryl Tobey and Carolyn Arline You ll find 25 research based assessment probes designed specifically for Grades 3 5 and the new Common Core Standards for Mathematics Learn to ask the right questions to uncover just where your students get confused and apply practical strategies to get them quickly back on track while learning is already underway It s all here in this detailed and time saving guide Organized by strand the probes will enable you to Quickly and objectively identify and correct students difficulties Systematically address conceptual misunderstandings and procedural mistakes before they become long term problems Plan targeted instruction and remediation in multiplication and division problem solving the four operations factorization and beyond Master the essential CCSM mathematical processes and proficiencies for Grades 3 5 With the help of sample student responses extensive Teacher Notes reproducibles and research based tips and resources you ll quickly eliminate the guesswork and join thousands of busy teachers who ve used these easy to implement probes to foster solid math proficiency **Uncovering Student Thinking about Mathematics in the**

Common Core, High School Cheryl Rose Tobey, Carolyn Arline, 2014 Contains 25 research based assessment probes designed specifically for High School and the new Common Core Standards for Mathematics **Uncovering Student**

Thinking About Mathematics in the Common Core, Grades 6-8 Cheryl Rose Tobey, Carolyn B. Arline, 2013-10-03

Pinpoint and reverse math misconceptions with laser like accuracy Quickly and reliably uncover common math misconceptions in Grades 6 8 with these convenient and easy to implement diagnostic tools Bestselling authors Cheryl Tobey and Carolyn Arline provide 25 new assessment probes that pinpoint subconcepts within the new Common Core Standards for Mathematics to promote deep learning and expert math instruction while learning is already underway Completely CCSM aligned these grade specific probes eliminate the guesswork and help teachers Systematically address conceptual and procedural mistakes Help students better understand areas of struggle Plan targeted instruction that covers Grades 6 8 CCSM mathematical processes and proficiencies *Uncovering Student Thinking About Mathematics in the Common Core,*

High School Cheryl Rose Tobey, Carolyn B. Arline, 2014-02-20 Take the guesswork out of high school math instruction Quickly and reliably uncover common math misconceptions in Grades 9 12 with these convenient and easy to implement diagnostic tools Bestselling authors Cheryl Rose Tobey and Carolyn B Arline provide 25 new assessment probes that pinpoint subconcepts within the Common Core State Standards to promote deep learning and expert math instruction all while

learning is underway Completely Common Core aligned these grade specific probes eliminate the guesswork and will help you Systematically address conceptual and procedural mistakes Pinpoint where students are struggling Plan targeted instruction in algebra functions logarithms geometry trigonometric ratios statistics and probability and more

Uncovering Student Thinking About Mathematics in the Common Core, Grades K-2 Cheryl Rose Tobey, Emily R. Fagan, 2013-05-31 Get to the core of your students understanding of math Quickly and reliably identify your primary students math knowledge with these convenient and easy to implement diagnostic tools Tobey and Fagan provide 25 new assessments specifically for Grades K 2 and directly aligned with the Common Core Organized by strand the probes will enable you to Quickly and objectively evaluate each child s prior knowledge of basic math and numeracy Systematically address common mistakes and obstacles before they become long term problems Make sound instructional choices to improve all students math skills Uncovering Student Thinking in Mathematics Cheryl M. Rose, Leslie Minton, Carolyn Arline, 2006-12-20

Appropriate for all grade levels these 25 field tested easy to use mathematics assessment probes help teachers modify instruction by determining students understanding of core mathematical concepts **Uncovering Student Thinking in Mathematics, Grades 6-12** Cheryl M. Rose, Carolyn B. Arline, 2008-06-27 Discussing standards research and more these 30 probes help secondary teachers assess students grasp of core mathematics concepts and modify their instruction to improve student achievement *Uncovering Student Ideas in Science: Another 25 formative assessment probes* Page Keeley, 2005 V

1 Physical science assessment probes Life Earth and space science assessment probes Uncovering Student Thinking About Mathematics in the Common Core, Grades K-2 Cheryl Rose Tobey, Emily R. Fagan, 2013-06-12 Get to the core of your students understanding of math Quickly and reliably identify your primary students math knowledge with these convenient and easy to implement diagnostic tools Tobey and Fagan provide 25 new assessments specifically for Grades K 2 and directly aligned with the Common Core Organized by strand the probes will enable you to Quickly and objectively evaluate each child s prior knowledge of basic math and numeracy Systematically address common mistakes and obstacles before they become long term problems Make sound instructional choices to improve all students math skills **Uncovering Student Thinking**

About Mathematics in the Common Core, High School Cheryl Rose Tobey, Carolyn B. Arline, 2014-03-10 Uncovering Student Thinking About Mathematics in the Common Core High School 25 Formative Assessment Probes Cheryl Rose Tobey Carolyn B Arline Not only does this book make strong connections to the CCSS it provides a framework for teachers to improve their craft Identifying student misconceptions is an extremely important aspect of assessment and this book provides a solid format to aid teachers Randy Wormald Math Teacher Kearsarge Regional High School Sutton NH Take the guesswork out of high school math instruction Helping your students master high school mathematics just got a whole lot easier Bestselling authors Cheryl Rose Tobey and Carolyn B Arline provide 25 detailed and grade level specific assessment probes that promote deep learning and expert math instruction Learn to ask the right questions to uncover where and how students

commonly get confused Focused on subconcepts within the new Common Core State Standards for Mathematics and organized by strand the probes will help you foster new and accurate skills while learning is underway You ll learn how to Quickly diagnose students common misconceptions and procedural mistakes Help students pinpoint areas of struggle Plan targeted instruction that builds on students current understandings while addressing difficulties with Algebra Geometry Functions Logarithms Statistics and Probability Trigonometric Ratios and more Elicit the skills and processes related to the Standards for Mathematical Practices You ll find sample student responses extensive Teacher Notes and research based tips and resources to help you instill new mathematical ideas Includes the QUEST Cycle for effective hands on implementation Now you can eliminate the guesswork once and for all and join thousands of busy high school teachers who ve used these easy to implement tools to build solid math proficiency Other Books From Corwin 1 Tobey Uncovering Student Thinking About Mathematics in the Common Core Grades K 2 978 1 4522 3003 0 2 Tobey Uncovering Student Thinking About Mathematics in the Common Core Grades 3 5 978 1 4522 7024 1 3 Tobey Uncovering Student Thinking About Mathematics in the Common Core Grades 6 8 978 1 4522 3088 7 Cheryl Rose Tobey is a Senior Mathematics Associate at Education Development Center EDC She is the implementation director for the Pathways to Mathematics Achievement Study and a mathematics specialist for the NSF funded Formative Assessment in the Mathematics Classroom Engaging Teachers and Students FACETS and Differentiated Professional Development Building Mathematics Knowledge for Teaching Struggling Students DPD projects She also serves as a project director for an Institute for Educational Science IES project Eliciting Mathematics Misconceptions EM2 Carolyn B Arline is a secondary mathematics educator currently teaching high school students in Maine She also works as a teacher leader in the areas of mathematics professional development learning communities assessment systematic school reform standards based teaching learning and grading student centered classrooms and technology She has previously worked as a mathematics specialist at the Maine Mathematics and Science Alliance MMSA and continues her work with them as a consultant

Uncovering Student Thinking About Mathematics in the Common Core, Grades 6-8 Cheryl Rose Tobey, Carolyn B. Arline, 2013-10-03 Pinpoint and reverse math misconceptions with laser like accuracy Here s the middle grades math resource you ve been waiting for Bestselling authors Cheryl Tobey and Carolyn Arline are back with 25 entirely new assessment probes that pinpoint subconcepts within the new Common Core Standards for Mathematics to promote deep learning and expert math instruction Learn to ask the right questions to uncover common student misconceptions Get practical instructional ideas that build new and accurate skills while learning is already underway It s all here in this detailed and grade level specific guide Organized by strand the probes will enable you to Quickly and objectively evaluate common misconceptions around fractions and decimals linear equations ratios and percents statistics and more Systematically address conceptual misunderstandings and procedural mistakes before they become long term problems Help students better understand areas of difficulty Plan targeted instruction that

builds on students current understandings while addressing areas of struggle Master the essential CCSM mathematical processes and proficiencies for Grades 6 8 You ll find sample student responses extensive Teacher Notes and research based tips and resources Eliminate the guesswork and join thousands of busy middle grades teachers who ve used these easy to implement tools to foster solid math proficiency This book will definitely help mathematics teachers now that the CCSS are becoming such a big part of our teaching Debra A Scarpelli Middle School Mathematics Teacher RIMLE President PARCC CCSS ELC Cadre for Rhode Island and Adjunct Professor *Mathematics Formative Assessment, Volume 2* Page Keeley, Cheryl Rose Tobey, 2016-12-08 This one of a kind resource helps you build a bridge between your students initial ideas and correct mathematical thinking Includes an annotated reference guide **Science Formative Assessment, Volume 2** Page Keeley, 2014-10-16 Deepen scientific understanding with formative assessment Only by really knowing what your students are thinking can you design learning opportunities that deepen content mastery and meet their individual needs In this highly engaging resource internationally respected expert Page Keeley shares 50 new techniques to pinpoint student understanding before during and after instruction In addition to promoting best practices in the classroom the techniques shared here support learning and link instruction to the Next Generation Science Standards These flexible assessments can be used with any science curriculum along with Practical strategies for use throughout the instruction cycle Considerations for implementation and suggestions for modification An explanation of how each technique promotes learning

Uncovering Student Thinking About Mathematics in the Common Core, Grades 3-5 Cheryl Rose Tobey, Emily R. Fagan, 2013-11-27 Take the guesswork out of grades 3 5 math assessment Quickly pinpoint and reverse your students common math difficulties with this detailed and easy to follow resource from best selling authors Cheryl Tobey and Carolyn Arline Twenty research based assessment probes help you ask the right questions to uncover just where your students get confused while learning is already underway These CCSM aligned probes eliminate all guesswork and will help you Systematically address conceptual and procedural mistakes Plan targeted instruction and remediation in multiplication and division problem solving the four operations factorization and beyond Master essential CCSM mathematical processes and proficiencies for Grades 3 5 **Diagnostic Classroom Observation** Nicole Saginor, 2008-05-22 Covers the entire supervision process from preconference analysis to postconference follow up and includes protocols for observing math science and literacy instruction **What Are They Thinking?** Page Keeley , 2014-04-01 Children are continually developing ideas and explanations about their natural world Some of these ideas are consistent with the science children are taught others differ significantly from scientific explanations Many of these ideas will follow students into adulthood if they remain hidden from the teacher and unresolved The challenge for teachers is to find ways to elicit these ideas and then use appropriate strategies to move students learning forward Page Keeley author of the bestselling NSTA Press series *Uncovering Student Ideas in Science* You don t have to become a mind reader to understand the ideas young students bring

to science class This collection will help you draw out and then recognize what students know or think they know about the natural world What Are They Thinking is a compendium of 30 Formative Assessment Probes columns from NSTA s elementary journal Science and Children Each chapter provides A sample formative assessment probe a set of interesting questions that root out commonly held often mistaken ideas Geared to elementary students probe topics range from why you can see the Moon in the daytime to where water goes when it evaporates to what is or isn t a rock Your students answers to each probe will help you take a step back and figure out how to guide them from where they are conceptually to where they need to be Accompanying teacher notes easy to grasp explanations and advice that tell you how to encourage evidence based discussion and then monitor students understanding A bonus feature a set of study group questions written especially for this compendium by award winning author Page Keeley So forget about acquiring psychic powers Instead turn to What Are They Thinking to transform both your teaching and your students learning about science

Mathematics Formative Assessment, Volume 1 Page Keeley, Cheryl Rose Tobey, 2011-09-15 Transform your mathematics instruction with this rich collection of formative assessment techniques Award winning author Page Keeley and mathematics expert Cheryl Rose Tobey apply the successful format of Keeley s best selling Science Formative Assessment to mathematics They provide 75 formative assessment strategies and show teachers how to use them to inform instructional planning and better meet the needs of all students Research shows that formative assessment has the power to significantly improve learning and its many benefits include Stimulation of metacognitive thinking Increased student engagement Insights into student thinking Development of a discourse community The authors also provide important guidance with each technique including usage tips and caveats implementation examples and suggested modifications With practical strategies that are relevant for all grades and topic areas Mathematics Formative Assessment provides the tools to transform teaching and learning in your classroom

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