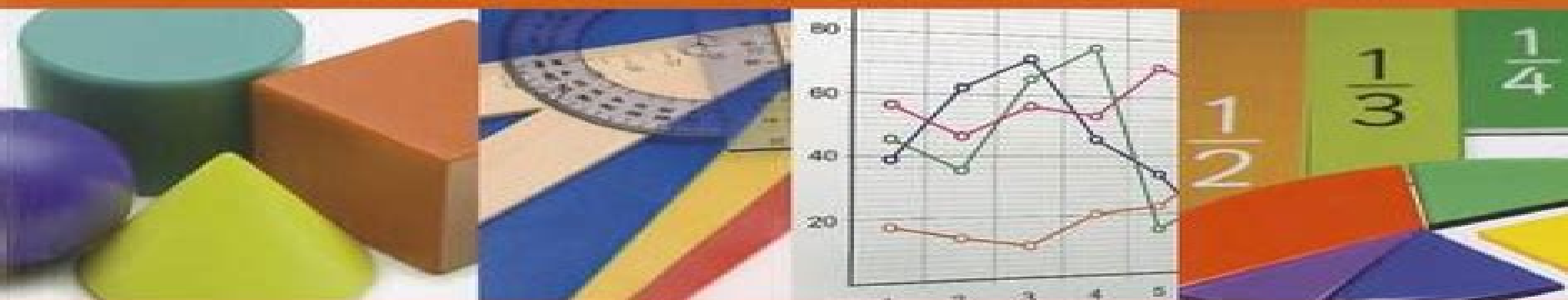


MATHEMATICS Formative Assessment

75 Practical Strategies for Linking
Assessment, Instruction, and Learning



Page Keeley
Cheryl Rose Tobey

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Mathematics Formative Assessment 75 Practical Strategies For Linking Assessment Instruction And Learning

Cheryl Rose Tobey, Emily R. Fagan



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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

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 1](#) Page Keeley, 2015-09-09 Formative assessment informs the design of learning opportunities that take students from their existing ideas of science to the scientific ideas and practices that support conceptual understanding Science Formative Assessment shows K 12 educators how to weave formative assessment into daily instruction Discover 75 assessment techniques linked to the Next Generation Science Standards and give classroom practices a boost with Descriptions of how each technique promotes learning Charts linking core concepts at each grade level to scientific practices Implementation guidance such as required materials and student grouping Modifications for different learning styles Ideas for adapting techniques to other content areas **Science Formative Assessment, Volume 1** Page Keeley, 2015-09-09 Newly Updated Deepen students science knowledge through formative assessment Formative assessment informs the design of learning opportunities that take students from their

existing ideas of science to the scientific ideas and practices that support conceptual understanding Page Keeley a nationally known expert in science education wrote Science Formative Assessment to help educators weave formative assessment into daily instruction and learning In the second edition the author provides many new examples links the strategies to current research as well as the Framework for K 12 Science Education and Next Generation Science Standards and even shows how these same techniques can be used across other disciplines Teachers will appreciate 75 formative assessment classroom techniques FACTs that include Descriptions of how each FACT promotes learning and informs instruction Charts linking K 12 core concepts and scientific practices to the 75 FACTs Implementation guidance such as required materials and student grouping Modifications for different learners and grade spans Links to use in other content areas including a brief example Use Science Formative Assessment with any science curriculum or state standards to improve and enhance teaching and learning in K 12 science classrooms

Mathematics Formative Assessment , Science Formative Assessment Page Keeley,National Science Teachers Association Staff,2015-01 This resource provides primary and secondary teachers with 75 user friendly strategies for using formative assessment to enhance science teaching and learning The author addresses how to balance opportunity to learn with assessment and describes a repertoire of purposeful methods

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

Mathematics Curriculum Topic Study Page Keeley,Cheryl M. Rose,2006-04-06 This book addresses the needs of teachers at every level in their teaching careers as well as those who support and work with teachers The processes can be used individually to guide professional learning and teaching or within almost any professional development structure for facilitating group

learning Katherine E Stiles Senior Program Associate WestEd This resource supports continual professional growth of both content and pedagogical knowledge and will help teachers focus on the appropriate research What a time saver this is Rhonda Naylor National Board Certified Mathematics Teacher Campus Middle School Englewood CO Attain the tools to plan and incorporate standards based instruction that positively impacts student achievement Becoming an accomplished mathematics teacher requires not only a thorough understanding of content but also a familiarity with mathematics standards and research However a strategy for translating standards and research into instructional practice has been lacking since the advent of standards based education reform Mathematics Curriculum Topic Study provides a systematic professional development strategy that links mathematics standards and research to curriculum instruction and assessment Developed by authors Page Keeley and Cheryl M Rose of the Maine Mathematics and Science Alliance the NSF funded Curriculum Topic Study CTS process can help educators align their practice with research based concepts and skills required in local state and national standards Successfully field tested with hundreds of teachers mathematics coordinators and staff developers this book contains 92 ready to use CTS guides arranged in seven categories that are aligned with NCTM content and process standards Designed to work in a variety of contexts the CTS process will help teachers Increase their content and pedagogical knowledge Better understand and access mathematics research Translate standards to the classroom in a conscious scholarly way Learn to recognize and address learning difficulties Increase opportunities for all students to achieve mathematical literacy An essential investment toward improving student achievement in mathematics for K 12 teachers staff developers directors of curriculum department chairs and math educators this innovative resource is also appropriate for preservice teachers and preservice higher education faculty

Science Formative Assessment, Volume 2 Page Keeley, 2014-10-16 Deepen scientific understanding with formative assessment Only by 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 using the techniques throughout the instruction cycle Considerations for implementation and suggestions for modification An explanation of how each technique promotes learning Examples of how the techniques can be used in different content areas An expert in the field of K 12 science education Page Keeley is the former president of the National Science Teachers Association a current Board Member of the National Science Education Leadership Association and has seventeen best selling books Science Formative Assessment Volume 2 contains a wealth of tools that encourage students to engage in practices such as scientific argumentation and discourse By emphasizing the alignment of the FACT with Science and Engineering Practices Keeley provides multiple ways for teachers

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experience Through reading and discussing the chapters teachers can gain valuable insight into why some approaches may be more beneficial than others **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

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 **Bringing Project-Based Learning to Life in Mathematics, K-12** Maggie Lee

McHugh, 2023-05-04 Go beyond problem solving and performance tasks Bring project based learning to life Do you want your students to be more engaged in their mathematics lessons while also amplifying cultural relevancy and equity If so proceed to the next level of instruction with project based learning PBL This book provides the whole PBL game plan designed by an experienced award winning teacher and researcher Whether you want to start with small steps or you are ready for full implementation in your classroom project based learning experiences can lead to forever memories and deeper learning for your students Answering the why what and how of embarking on the journey toward PBL readers will find Need to Know questions to open each chapter Student and educator vignettes to identify stumbling blocks and successes PBL Plus Tips that identify those small steps teachers can make to gradually shift toward PBL Your Turn prompts to actively connect ideas to your practice This approachable guide includes everything you need to move from tasks to memorable project based experiences that leverage student voice and choice and build a welcoming classroom culture **Deeper**

Competency-Based Learning Karin Hess, Rose Colby, Daniel Joseph, 2020-05-06 The roadmap for your school's CBE journey The one size fits all instructional and assessment practices of the past no longer equitably meet the needs of all students Competency based education CBE has emerged not only as an innovation in education but as a true transformation of the approaches to how we traditionally do school In Deeper Competency Based Learning the authors share best practices from

their experiences implementing CBE across states districts and schools Leaving no stone unturned readers are guided step by step through CBE implementation and validation phases beginning with defining your WHY and collaborative development of the competencies describing deeper learning The CBE readiness tools and reflections inside will help your team Build the foundation for organizational shifts by examining policies leadership culture and professional learning Dig in to shifts in teaching and learning structures by addressing rigorous learning goals competency based assessment evidence based grading and body of evidence validation Take a deep dive into the shift to student centered classrooms through personalized instructional strategies that change mindsets regarding teacher student roles responsibilities and classroom culture Discover how your students can demonstrate deeper learning of academic content and develop personal success skills by maximizing time place and pace of learning with this roadmap for your CBE journey Mastering Formative Assessment Moves Brent Duckor, Carrie Holmberg, 2017-06-27 How do you know if students are with you at the beginning middle and end of a lesson Can formative assessment offer a key to better teaching and learning during instruction What if you could blend different formative assessment moves in your classroom with intention and care for all students to help make better instructional decisions on the fly and enjoy more teachable moments Educators Brent Duckor and Carrie Holmberg invite you on the journey to becoming a formative assessor They encourage you to focus on these seven research based high leverage formative assessment moves Priming building on background knowledge and creating a formative assessment rich equitable classroom culture Posing asking questions in relation to learning targets across the curriculum that elicit Habits of Mind Pausing waiting after powerful questions and rich tasks to encourage more student responses by supporting them to think aloud and use speaking and listening skills related to academic language Probing deepening discussions asking for elaborations and making connections using sentence frames and starters Bouncing sampling student responses systematically to broaden participation manage flow of conversation and gather more soft data for instructional use Tagging describing and recording student responses without judgment and making public how students with different styles and needs approach learning in real time Binning interpreting student responses with a wide range of tools categorizing misconceptions and p primes and using classroom generated data to make more valid and reliable instructional decisions on next steps in the lesson and unit Each chapter explores a classroom tested move including foundational research explaining how and when to best use it and describing what it looks like in practice Highlights include case studies try now tasks and tips and advice from beginning and seasoned teachers who use these formative assessment moves in their classrooms

Concept-Based Mathematics Jennifer T.H. Wathall, 2016-01-14 Give math students the connections between what they learn and how they do math and suddenly math makes sense If your secondary school students are fearful of or frustrated by math it's time for a new approach When you teach concepts rather than rote processes you help students discover their own natural mathematical abilities This book is a road map to retooling how you teach math in a deep clear and meaningful way

to help students achieve higher order thinking skills Jennifer Wathall shows you how to plan units engage students assess understanding incorporate technology and there s even a companion website with additional resources

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