



Activating Assessment for All Students: Differentiated Instruction and Information Methods in Math and Science

By Mary Hamm, Dennis Adams

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Hamm and Adams present models to help teachers identify student learning problems?recognizing when to re-teach, when to move ahead, and when to explain or give more examples. *Activating Assessment for All Students* takes all of these into account when it provides differentiated science/math methods and goes on to suggest ways that formative assessment practices can inform differentiated teaching, learning, and assessment. These methods promote success for more students by helping teachers develop informative assessment for lessons and related tools for reaching the varying levels of student competencies within their classes.

This book builds on the expanding knowledge of what works in classrooms and suggests approaches that can open up individual and group possibilities for science and mathematics instruction. It intends to help you answer the following questions:

- * What is differentiated instructional assessment?
- * How can I amplify the results of DI by using formative assessments?
- * How might quality assessment tools (like portfolios) benefit all students?
- * How will I know that differentiated formative assessment works?

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Editorial Review

Review

Activating Assessment for All Students is a practical 'how-to' guide for teachers of mathematics and science. It details the connections among mathematics and science teaching, learning, and assessment. ... As educators, we know that assessment is much more than examination of student work. We also know that we must meet the needs of all students through differentiation. *Activating Assessment for All Students* supports our ability to make both a reality. The book comes with a dual recommendation for classroom teachers and professional development leaders. For the classroom teacher, it suggests ideas and structure for assessing and differentiating. For professional development leaders, it yields a good topic for a book study or action research project. (*Teaching Children Mathematics*)

Activating Assessment for All Students presents a fascinating overview of the importance of differentiated teaching and assessment in the classroom. Hamm and Adams take educators through the entire process of differentiation in the classroom through activities and clearly written examples. The authors share a variety of differentiated activities and assessment tools that provide teachers with a toolbox to keep students actively engaged and give students ownership of their own learning. The authors also share their scientific research base all the way through teacher selfreflection. The book allows educators to understand when it might be necessary to reteach and when it is time to move ahead. The reader is presented with a bounty of examples, both in activities and assessments, in math and science. . . . This book is an excellent tool for any educator, whether he or she is new to teaching or a seasoned veteran. This would actually make an excellent book study for a Professional Learning Community or any group of educators. (*Mathematics Teaching in the Middle School*)

The first two chapters of this book are devoted to discussing differentiated learning and informative assessment methods. Professionals looking for research-based information will be pleased. (*Mathematics Teacher*)

Activating Assessment for All Students, second edition, clearly delineates the importance of *Informative assessment* as a process which naturally stimulates expression of ideas, peer feedback, and teacher-led discussion. . . . Hamm and Adams effectively demonstrate how teachers can use science and math strategies in learning to plan and evaluate instruction and assessment techniques in their well-researched and documented chapters. Diversity in student population, ability level, and learning style all speak to the need for-and the importance of differentiated instruction and assessment of teaching math skills to include reasoning and problem-solving and of science skills to include collaborative inquiry, critical thinking, and communication. The points for discussion and sample lesson plans serve as a quality guide to possible research, discussion, and active lesson planning in the implementation of prescribed ideas and suggestions. (J. Bird, teacher of special needs children, Sacramento, California)

The second edition of *Activating Assessment for All Students* provides teachers with a variety of formative and performance assessment tools to guide curriculum planning, lesson design, and use of adaptive teaching strategies to foster student success. Mary Hamm and Dennis Adams present differentiated classroom activities, plus many ideas to improve instruction so that students will be actively engaged in their own learning. The authors provide a clear, realistic and useful approach to informative assessment. This book serves as a useful guide to gather information in order to "know your students." (Cindy Mazoch, teacher, Stevens Point, Wisconsin)

Activating Assessment for All Students provides an interesting look at the value of differentiated teaching in the classroom. The authors discuss recent research in cognitive science including an examination of Multiple Intelligence Theory and its relevance to the modern classroom. The book canvasses a variety of assessment tools for both individual and group learning. From portfolios to collaborative inquiry, the authors include a number of practical assessment models with a strong emphasis on Math and Science. They also highlight the importance of both formative and summative assessment while also making recommendations for teachers' self-reflection as part of the leaning process. (Meaghan Storey, Teacher, New Brunswick, Canada)

About the Author

Mary Hamm is a professor of science and mathematics at San Francisco State University. She has published more than ten books and eighty journal articles on these topics.

Dennis Adams is an educational consultant who has taught classes at McGill University in Montreal. He is author of more than twelve books and a hundred journal articles on various educational topics.

Users Review

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Gayle Collins:

The experience that you get from *Activating Assessment for All Students: Differentiated Instruction and Information Methods in Math and Science* is the more deep you searching the information that hide into the words the more you get serious about reading it. It doesn't mean that this book is hard to be aware of but *Activating Assessment for All Students: Differentiated Instruction and Information Methods in Math and Science* giving you joy feeling of reading. The article author conveys their point in particular way that can be understood simply by anyone who read it because the author of this book is well-known enough. This particular book also makes your own vocabulary increase well. Therefore it is easy to understand then can go along with you, both in printed or e-book style are available. We suggest you for having this kind of *Activating Assessment for All Students: Differentiated Instruction and Information Methods in Math and Science* instantly.

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