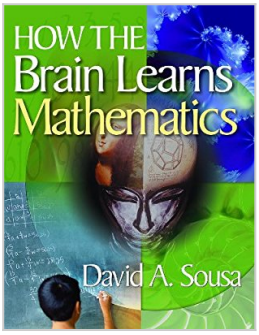

How the Brain Learns Mathematics

From Corwin

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Learn how the brain processes mathematical concepts and why some students develop math anxiety!

David A. Sousa discusses the cognitive mechanisms for learning mathematics and the environmental and developmental factors that contribute to mathematics difficulties. This award-winning text examines:

- Children’s innate number sense and how the brain develops an understanding of number relationships
- Rationales for modifying lessons to meet the developmental learning stages of young children, preadolescents, and adolescents
- How to plan lessons in PreK–12 mathematics
- Implications of current research for planning mathematics lessons, including discoveries about memory systems and lesson timing
- Methods to help elementary and secondary school teachers detect mathematics difficulties
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How the Brain Learns Mathematics From Corwin Bibliography

- Sales Rank: #10147673 in Books
- Published on: 2007-09-25
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: .85" h x 8.88" w x 11.15" l,
- Binding: Hardcover
- 264 pages

Editorial Review

Review
"An excellent, well-organized, well-written book?practical advice grounded in solid research and presented in compelling language." (Robert Sylwester, Emeritus Professor of Education 2007-05-08)

"Totally absorbing. I found myself discussing different aspects of it with my colleagues and reading passages out loud to my husband. Any teacher who teaches math should have this on his or her book list." (Carol Amos, Math Teacher 2007-05-08)

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"The cognitive findings of this book are powerful and affirming and add support to my current work and practice. I took away powerful concepts that have enormous implications for teaching and learning mathematics." (Daniel Raguse, President 2007-05-08)

"The very bottom line is that this book is about what is best for helping students learn mathematics and helping teachers teach it in a way that is purposeful and meaningful for their students." (Deborah Gordon, Third-Grade Teacher 2007-05-08)

"The book's unique contribution to the field is the connection of research to educational practice, providing a common language for researchers and practitioners to begin dialogues about learning mathematics." (Janice Bradley, Project Coordinator 2007-05-08)

"I am so impressed with this book that I believe it should be required reading for all teachers who teach math at any level." (Mary Thoreen, Mathematics Teacher 2007-05-08)

"This book has actually changed the way I think now of teaching math in particular and learning in general, and I've been teaching math for over 25 years." (Jim Barta, Associate Professor of Elementary Education 2007-05-08)

"Comes from a respected author and researcher who explores the latest neuroscientific findings in learning and math cognition. Pairs research with lesson plans specific to elementary and secondary school teachers." (California Bookwatch, December 2007 2008-01-29)

"Teachers of all grade levels will be intrigued by Sousa's explanation of the brain processes involved in learning math concepts and why so many people find them difficult to understand. Developmentally appropriate math strategies and lessons for preK-12 students that focus on both memory and meaning are offered, along with a section on diagnosing and addressing difficulties in students." (Curriculum Connections, Spring 2008 2008-08-07)

About the Author

David A. Sousa, EdD, an international consultant in educational neuroscience, has written 16 books for educators and parents on ways of using brain research to improve teaching and learning. He has conducted workshops for more than two hundred thousand educators in hundreds of school districts on brain research

and science education at the pre-K to Grade 12 and university levels. He has presented at national conventions of educational organizations and to regional and local school districts across the United States, Canada, Europe, Australia, New Zealand, and Asia.

Dr. Sousa has a bachelor of science degree in chemistry from Bridgewater (Massachusetts) State University, a master of arts degree in teaching science from Harvard University, and a doctorate from Rutgers University. His teaching experience covers all levels. He has taught high school science and has served as a K–12 director of science, a supervisor of instruction, and a district superintendent in New Jersey schools. He has been an adjunct professor of education at Seton Hall University and at Rutgers University. A past president of the National Staff Development Council (now called Learning Forward), Dr. Sousa has edited science books and published numerous articles in leading educational journals on staff development, science education, and brain research. He has received awards from professional associations, school districts, and Bridgewater State University (Distinguished Alumni Award), and several honorary doctorates for his commitment and contributions to research, staff development, and science education. He has been interviewed on the NBC Today show and on National Public Radio about his work with schools using brain research. He makes his home in south Florida.

Users Review

From reader reviews:

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