

Teaching Secondary and Middle School Mathematics (4th Edition)

By Daniel J. Brahier


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Teaching Secondary and Middle School Mathematics is designed for pre-service or in-service teachers. It combines up-to-date technology and research with a vibrant writing style to help teachers grasp curriculum, teaching, and assessment issues as they relate to secondary and middle school mathematics. The fourth edition offers a balance of theory and practice, including a wealth of examples and descriptions of student work, classroom situations, and technology usage to assist any teacher in visualizing high-quality mathematics instruction in the middle and secondary classroom.

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Editorial Review

From the Back Cover

Teaching Secondary and Middle School Mathematics incorporates the most current information and research to prepare future and current teachers to grasp curriculum, teaching, and assessment issues as they relate to secondary and middle school mathematics in the 21st Century. The fourth edition continues to offer a balance of theory and practice, including a wealth of examples and descriptions of student work, classroom situations, and technology usage to assist teachers in implementing high-quality secondary mathematics instruction in the era of Common Core State Standards. With his vibrant writing style, scholar and middle/high school educator, Daniel Brahier, presents concise, current, and meaningful descriptions of effective teaching of mathematics.

New to the Fourth Edition:

NEW Common Core State Standards for Mathematics. This edition incorporates the latest standards developments on a national scale, including the Standards for Mathematical Practice and specific Content Standards as released in the 2010 document. See Chapter 1 (mathematical practices) and Chapter 4 (core curriculum).

1. **NEW Research Results and Trends in Teaching Mathematics.** This edition presents an incredible amount of the latest research in every chapter, including international test score comparison, national assessment results, and published studies on the effects of teaching strategies. Examples include the discussion of the latest TIMSS, PISA, and NAEP assessments (Chapter 1), and cited research studies on teaching (Chapter 3).
2. **NEW Curricular and Instructional Trends.** New content familiarizes the reader with the latest in educational trends as they apply to the learning and teaching of mathematics, including specific state-level curriculum changes, middle school practices of integration and clustering, and the notion of backward design in planning.
3. **NEW Discussion about NCTM's Focus on High School Mathematics: Reasoning and Sense-Making.** The added discussion familiarizes the reader with resources available to promote reasoning and sense making in grades 9-12—fostering a philosophy of teaching of high school mathematics that is broader than mere skill development. Information about these “focus” documents is woven throughout Chapters 8 and 9.
4. **NEW Chapter on Teaching Specific Content Areas.** This edition expands, into two separate chapters, coverage of curriculum and teaching strategies for number sense and algebra (Chapter 8), and geometry, statistics and probability, and discrete mathematics (Chapter 9). Chapters 8 and 9 collectively feature 65 sample lesson plans and field-tested classroom activities.
5. **NEW Information on Meeting the Needs of Diverse Populations of Students.** More practical information added to this edition addresses how to meet the needs of students with special education needs, students who are gifted, or students whose first language is not English. This information, which is a major emphasis in the field of mathematics education today, appears primarily in the new Chapter 12.
6. **REVISED Appendix.** To expose readers to the latest resources available to teachers, the revised Appendix includes new resources for each of the 13 chapters of the book, such as websites, books, and journal articles that support that content of each of the chapters.

About the Author

Daniel Brahier is a Professor of Mathematics at Bowling Green State University in Ohio. In addition, he teaches an eighth grade mathematics class at <?xml:namespace prefix = st2 /> St. Rose School in Perrysburg, Ohio. In his more than 30 years in education, he has been middle and high school mathematics and science

teacher, a principal, a guidance counselor, a curriculum consultant, and a university professor. He is co-author of *Today's Mathematics, Twelfth Edition*, a methods and content book for elementary teachers published by Wiley (2009), as well as the author of three other books on mathematics education. He is a Past-President of the Ohio Council of Teachers of Mathematics and has served in numerous capacities for the National Council of Teachers of Mathematics, such as the editorial panel of the journal of *Mathematics Teaching in the Middle School*. He has presented mini-courses and lectures throughout the United States as well as in Canada, Mexico, Australia, Singapore, and Germany.

Users Review

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Cortney Roller:

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