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# Teaching Secondary Mathematics

By Douglas K. Brumbaugh, David Rock

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**Teaching Secondary Mathematics** By Douglas K. Brumbaugh, David Rock

*Teaching Secondary Mathematics, Third Edition* is practical, student-friendly, and solidly grounded in up-to-date research and theory. This popular text for secondary mathematics methods courses provides useful models of how concepts typically found in a secondary mathematics curriculum can be delivered so that all students develop a positive attitude about learning and using mathematics in their daily lives.

A variety of approaches, activities, and lessons is used to stimulate the reader's thinking--technology, reflective thought questions, mathematical challenges, student-life based applications, and group discussions. Technology is emphasized as a teaching tool throughout the text, and many examples for use in secondary classrooms are included. Icons in the margins throughout the book are connected to strands that readers will find useful as they build their professional knowledge and skills: Problem Solving, Technology, History, the National Council of Teachers of Mathematics Principles for School Mathematics, and "Do" activities asking readers to do a problem or activity before reading further in the text. By solving problems, and discussing and reflecting on the problem settings, readers extend and enhance their teaching professionalism, they become more self-motivated, and they are encouraged to become lifelong learners.

The text is organized in three parts:

- \*General Fundamentals--Learning Theory, Curriculum; and Assessment; Planning; Skills in Teaching Mathematics;
- \*Mathematics Education Fundamentals--Technology; Problem Solving; Discovery; Proof; and
- \*Content and Strategies--General Mathematics; Algebra 1; Geometry; Advanced Algebra and Trigonometry; Pre-Calculus; Calculus.

New in the Third Edition:

- \*All chapters have been thoroughly revised and updated to incorporate current research and thinking.
- \*The National Council of Teachers of Mathematics Standards 2000 are integrated throughout the text.
- \*Chapter 5, Technology, has been rewritten to reflect new technological advances.
- \*A Learning Activity ready for use in a secondary classroom has been added to the end of each chapter.
- \*Two Problem-Solving Challenges with solutions have been added at the end of each chapter.
- \*Historical references for all mathematicians mentioned in the book have been

added within the text and in the margins for easy reference.

\*Updated Internet references and resources have been incorporated to enhance the use of the text.

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## **Editorial Review**

### **Review**

*This book is a valuable addition to the textbooks available for prospective secondary mathematics teachers. The style is refreshing, the approach is modern without being radical, and the mathematics is substantive. A preservice teacher completing this textbook would be well prepared to provide a mathematically rich learning environment. Experienced mathematics teachers also can benefit from reading this book. Thus, the book can make a strong contribution to the mathematical education of both preservice and in-service mathematics teachers.'*

—**Mathematics Teacher**

*...A resource I wish I'd had as a candidate going through the certification process....One must be able to 'talk the talk' by linking practices to standards and accepted educational research. This book goes there and more. I would recommend it to any candidate who is evaluating the teaching and learning of mathematics in the secondary classroom.*

—**Melanie Miller**

*National Board Certified Teacher of Mathematics, Lyman High School, Florida*

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