

## Teacher Guide Math Makes Sense Grade 8

The methods for teaching mathematics usually follow the structure of mathematics. The problem with this is that the structure of mathematics took centuries of elaboration to develop and is not the same as how one originally experiences mathematics. Based on research of how mathematics is actually learned, this book presents an innovative approach for teaching mathematics that will engage pupils and can have lifelong benefits for how they take on board more advanced mathematical topics. Math Makes Sense! makes use of the realistic mathematics education (RME) philosophy, which bridges the gap between informal mathematics learning (such as in day-to-day life) and more formal teaching in school. Many real-life situations as examples for learning are included, as well as different mathematical and logic puzzles that will stimulate learning and foster understanding. The ideas presented are not confined to one national curriculum and so can be helpful worldwide to teachers/ instructors (both in practice and those still in training), private tutors, homeschooling parents, and educational researchers.

Contents: Preface Acknowledgments About the Authors Fostering the Learning of Mathematics Construction of Concepts and Mathematical Interpretations Numbering Addition and Subtraction Multiplication and Division Fractions, Decimals, and Percentages Measurement Exploring Space Probability and Statistics Patterns, Relations, and Functions The Joy of Puzzles Technology: A Tool for Analysis and Interpretation Assessment Concluding Remarks

Readership: Teachers, trainee teachers, researchers interested in mathematics education, homeschool parents, and parents with children in primary/ elementary school.

Key Features: This book is grounded on solid mathematics learning research, as well as on the authors' own observations in the classroom, and so combines theoretical knowledge with practice. Written in an accessible manner. Gives educators ideas which they can easily implement in the classroom.

Also includes a CD-ROM with unit planning charts, assessment masters, extra practice masters, and unit tests.

"Ten-frames are a model to help students efficiently gain and develop an understanding of addition and subtraction. The classroom-tested routines, games, and problem-solving lessons in this book use ten-frames to develop students' natural strategies for adding numbers and fit into any set of state standards or curriculum"--Provided by publisher.

Grade level: 3, p, e, t.

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