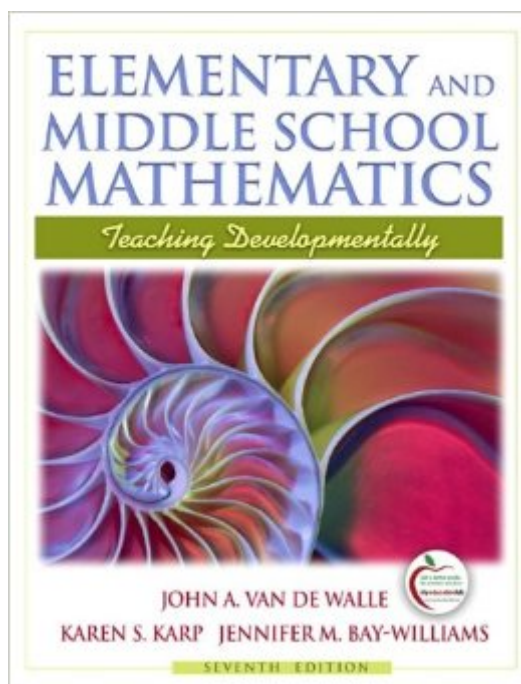


The book was found

Elementary And Middle School Mathematics: Teaching Developmentally (7th Edition)



Synopsis

It is fun to figure out the puzzle of how children go about making sense of mathematics and then how to help teachers help kids. • John A. Van de Walle, Late of Virginia Commonwealth University

This is the philosophy behind *Elementary and Middle School Mathematics: Teaching Developmentally*. John A. Van de Walle wrote this book to help students understand mathematics and become confident in their ability to teach the subject to children in kindergarten through eighth grade. Although he could not have foreseen the changes in mathematics teaching over the last three decades, he was at the forefront of the movement towards a constructivist view of teaching, or teaching developmentally. Constructivism says that children construct their own knowledge. They are not blank slates waiting to absorb whatever the teacher tells them. Teachers must understand both mathematics itself and how students learn mathematics in order to teach it effectively.

Learning through problem solving is another major theme of this book. Students solve problems not just to apply mathematics, but also to learn new mathematics. Effective problems will take into account where students are, the problematic or engaging aspect of the problem must be due to the mathematics that the students are to learn and not be diluted by non-mathematical activities such as cutting or pasting, and the problem must require justifications and explanations for answers and methods. Learning then becomes an outcome of the problem solving process.

The book also addresses in more detail than any other book on the market the effect that the trends of standards-based education, increased pressure to test, and increased teacher accountability have had on teaching mathematics. He addresses the 2000 NCTM Standards in depth, in Chapter 1 on Teaching Mathematics in the Era of the NCTM Standards, through the NCTM icon that appears in the margins throughout the text, and in two appendices in the back of the book. Chapter 5 on Building Assessment into Instruction has also been heavily revised to focus on increased testing pressure, creating more explicit links between objectives and assessment, and including assessments for students with special needs. Additionally, samples of Pearson's reformed-based curricula, *Connected Math Project* (5-8) as well as *Investigations* (K-4), are featured in the text and on the myeducationlab site.

Elementary and Middle School Mathematics: Teaching Developmentally is a book for doing math today—for both students who want to become teachers, and the students they will eventually teach.

New To This Edition:

- NEW! Revises Chapter 5 on assessment--Discusses increased testing pressure and accountability, adds more information on equitable assessments, creates more explicit links between objectives and assessment, and includes assessments for students with special needs.
- NEW! Updates the Literature Connections feature to remove all out of print

children's literature and include more non-fiction, poetry, and other types of readings. **NEW!** Weaves the Focal Points throughout the chapters as well as links them with the Big Ideas feature. "Focal Points have also been added to the Appendix." **NEW!** Includes expanded coverage of working with diverse learners. **NEW!** Gives greater emphasis on dealing with math anxiety.

Book Information

Paperback: 576 pages

Publisher: Pearson; 7 edition (January 25, 2009)

Language: English

ISBN-10: 0205573525

ISBN-13: 978-0205573523

Product Dimensions: 8.4 x 0.9 x 10.8 inches

Shipping Weight: 3 pounds

Average Customer Review: 4.4 out of 5 stars [See all reviews](#) (67 customer reviews)

Best Sellers Rank: #32,535 in Books (See Top 100 in Books) #71 in [Books > Science & Math > Mathematics > Study & Teaching](#) #104 in [Books > Education & Teaching > Schools & Teaching > Instruction Methods > Mathematics](#) #122 in [Books > Textbooks > Education > Elementary Education](#)

Customer Reviews

If you learned math from traditional methods or algorithms, you must read this book. Math today is so different from how I learned it. This book explains how and why math has changed so much. I recommend it to teachers and parents alike. The author explains how to teach math using problem-solving. The method makes so much more sense than traditional mathematics. The book is filled with activities for every math concept and age that are easy to find, read, and use without much prep or prop. It also has ideas and resources for including literature and technology into math class. I find it highly valuable as a 3rd year teacher of fifth grade. My district uses the Visual Math program, and this book has helped me understand why visual math works much more than any inservice. I have the fifth edition as a textbook for a methods class, and I'll never leave home without it.

This book has not only taught me to teach math effectively but it has changed the way I understand mathematic concepts as well. I was taught math walking step by step through each chapter in a text

book, learning skills and not concepts, learning algorithms rather than developing logical reasoning strategies. Van De Walle has suited me as a textbook for myself and a resource for curriculum planning in my sixth grade math class. I am so thankful to have stumbled into this text - it has been a life saver!

The book is good and has many useful ideas and activities for math instruction. The rub is that doesn't give you the access code which is required to link to a website which contains blackline masters, etc. Their customer service staff is friendly but ineffective in resolving this issue and the publisher doesn't seem to know what to do about it either. Very frustrating! At \$120+ for the book, I wouldn't have expected to have these hassles and, ultimately, remain dissatisfied.

As an elementary teacher and college math methods instructor, I have found this book to be an excellent resource for teaching children math in an engaging, meaningful way. The author includes lots of examples of useful activities for all areas of mathematics. A book I'll use over and over in the years to come...

Elementary and Middle School Mathematics: Teaching Developmentally, Fifth Edition is an extremely practical and useful tool for teachers. Chapters include information for varying grade levels. All chapters relate mathematics instruction to the NCTM content and process standards. Principles of a high quality mathematics program (equity, curriculum, teaching, learning, assessment and technology) are presented throughout. Great suggestions for manipulatives and alternative ways to assist student's understanding of the concepts. This text helps the teacher make math "real world" and better yet, fun!

This book contains multiple solid strategies for teaching mathematic concepts to children in elementary school. I never knew there were so many ways to look at addition and subtraction, but I do know different children will have different perceptive needs. Van de Walle catalogues strategies to help elem math teachers of any level.

It certainly met my expectations and then some. I have not read the entire book but what I have studied has opened my eyes to innovative ways to understand, perceive, and, of course teach mathematics. I recommend this book for educators, home schoolers and parents interested in developing their math skills and those of their kids. This book carries a big punch! Buckle up and be

ready to do some work. And most importantly, enjoy it. Via this source of communication, I would be interested in what you think after reading and working a few chapters. Have a good day.

This book is a great resource when planning lessons. I am a first-year Fifth Grade teacher and this book has proven invaluable to me when it comes to breaking down lessons into sequential activities. Another larger textbook was recommended to me, but comparatively, this book is concise and is very practical.

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