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the primary aim of this book is to provide teachers of mathematics with all the tools they would need to conduct most effective mathematics instruction the book guides teachers through the all important planning process which includes short and long term planning as well as constructing most effective lessons with an emphasis on motivation

classroom management emphasizing problem solving techniques assessment enriching instruction for students at all levels and introducing relevant extracurricular mathematics activities technology applications are woven throughout the text a unique feature of this book is the second half which provides 125 highly motivating enrichment units for all levels of secondary school mathematics many years of proven success makes this book essential for both pre service and in service mathematics teachers

every year new secondary mathematics teachers take up positions in middle and high schools the luckiest novices receive assistance from a coach or mentor a master mathematics teacher who makes constructive comments models effective approaches and illuminates other practical aspects of teaching secondary math but many new teachers don t have this advantage and must further their development on their own if you are one of these teachers this is the book you need in these pages veteran mathematics educators alfred s posamentier daniel jaye and stephen krulik present a treasure chest of ideas to guide new secondary math teachers through the challenging first few months and also provide more experienced teachers with interesting alternatives to familiar methods the topics covered include the most effective instructional practices the best uses of the textbook designing successful lessons creating homework that promotes learning incorporating challenge teaching reasoning and problem solving strategies for assessment and grading specific innovative ideas for teaching key concepts options for extracurricular activities long term professional enrichment and growth it s during the first few years of a teacher s experience that he or she develops the habits methods procedures and techniques that tend to define a career exemplary practices for secondary math teachers provides both a foundation for excellence and a touchstone for years to come note this product listing is for the adobe acrobat pdf version of the book

this updated edition presents ten strategies for solving a wide range of mathematics problems plus new sample problems

the revision of this book introduces the 2000 nctm principles and standards and explains their use for teaching secondary school mathematics instruction unlike other books it utilizes 125 enrichment units to provide the staples in preparing to teach mathematics the authors provide step by step techniques on preparing lessons and tests motivating students designing assignments and organizing the classroom this valuable book also provides practical teaching methods for immediate use along with answers to typical questions readers have about teaching math chapter topics include the mathematics teacher today long range and short range planning teaching more effective lessons the role of problem solving in the mathematics classroom using technology to enhance mathematics instruction authentic assessment and grading strategies enriching mathematics instruction and extracurricular activities in mathematics for mathematics teachers in secondary schools

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