

Teaching mathematics;  
A sourcebook of aids,  
activities, and  
strategies

Sobel, Max A

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# Teaching Mathematics A Sourcebook Of Aids Activities And Strategies

**Max A. Sobel, Evan M. Maletsky**



## **Teaching Mathematics A Sourcebook Of Aids Activities And Strategies:**

**Teaching Mathematics** Max A. Sobel, Evan M. Maletsky, 1999 Teaching junior and senior high school math classes  
Instructors of mathematics school administrators math specialists and parents

**Teaching Mathematics** Max A. Sobel, Evan M. Maletsky, 1988 The art of teaching math lies in the ability of the instructor to motivate and inspire individuals to look beyond the numbers and understand the concepts This book is designed to revive this art focusing more on the aspects of learning the ideas behind the math rather than the sheer mechanics of mathematical operation This text addresses the art of teaching mathematics while also providing specific aids and activities in arithmetic geometry algebra and probability and statistics for use in the classroom The authors pay close attention to the role importance methods and techniques of motivation They present ideas that will generate attention interest and surprise among students and will thus foster creative thinking The material in the text is based on talks given by the authors at professional meetings as well as the actual application of their ideas in undergraduate and graduate classes they taught Additionally many laboratory and discovery activities have been used by authors in teaching junior and senior high school math classes Instructors of mathematics school administrators math specialists and parents

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and in service mathematics teachers **Mathematics Teaching** Kenneth J. Travers,1977 **Problem Solving in School Mathematics** ,1980 *Handbook for Exploratory and Systematic Teaching of Elementary School Mathematics* C. Alan Riedesel,Paul Clay Burns,1977 **Teaching Secondary Mathematics** Alfred S. Posamentier,Jay Stepelman,2002 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 *The Australian Mathematics Teacher* ,1985 **Teaching Secondary School Mathematics** Alfred S. Posamentier,Jay Stepelman,1999 Resource for inservice and pre service mathematics teachers The text discusses methods of teaching the subject and provides a collection of enrichment units to enhance the curriculum Teaching and Learning Elementary and Middle School Mathematics Linda Jensen Sheffield,Douglas E. Cruikshank,1996 **Laboratory Activities for Teachers of Secondary Mathematics** Gerald Kulm,1976 **Reading and Learning in the Content Classroom** Thomas H. Estes,Joseph L. Vaughan,1985 *Mathematics for Elementary School Teachers* James E. Schultz,1982 Grade level 1 2 3 4 5 6 7 e p t **Readings for Enrichment in Secondary School Mathematics** Max A. Sobel,1988 *Guidelines for the Tutor of Mathematics* Henry S. Kepner,David R. Johnson,1977 *Practical Ways to Teach the Basic Mathematical Skills* Virginia Council of Teachers of Mathematics,1978 Scooby and the gang are enjoying an archaeological excavation in the jungle when a crazed half man half beast appears warning the team to stay away The gang needs to solve the mystery and stop the monster **Teaching Mathematics in Secondary and Middle School** James S. Cangelosi,1992 **Mathematics for Georgia Middle Grades** Georgia. Division of Curriculum Services,1982 Reading in the Mathematics Classroom Cyrus F. Smith,Henry S. Kepner,1981 The concept that it is important for students to learn how to read the language of mathematics is promoted Most mathematics teachers neither have the knowledge nor feel the responsibility to develop reading skills in their students The materials in this document are viewed to be of sufficient variety and potential for making important improvements in mathematics classrooms The teaching ideas are based on the well accepted notion that learning results from interest in a subject Providing that interest through readiness is considered the key Individual chapter titles are 1 The Reading Phase of Mathematics 2 The Instructional Framework 3 The Structured Overview 4 The Development of Mathematics Vocabulary 5 The Dilemma of Word Problems 6 The Readability of Mathematics

Materials and 7 Concluding Remarks Additional Mathematics Reading Resources Teacher Focus Recreational Supplementary Resources Student Focus and References are found at the conclusion of the document MP

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