# NCTM Publications on Hand

| QUANTITY | TITLE, DESCRIPTION | PRICE |
|---|---|---|
| | **YEARBOOKS** | |
| 1 | (27th) *Enrichment Mathematics for the Grades*. Supplementary material for the upper grades and beyond. Extensive bibliographies. 1963. 368 pp. Hardback. | $6.50 |
| 1 | (29th) *Topics in Mathematics for Elementary School Teachers*. Compilation of first series of *Topics* booklets. 1964. 377 pp. | 6.50 |
| 1 | (30th) *More Topics in Mathematics for Elementary School Teachers*. Compilation of second series of *Topics* booklets. 1969. 584 pp. | 8.50 |
| 1 | (36th) *Geometry in the Mathematics Curriculum*. Presents the various theories on how geometry might best be taught at all levels - informally from kindergarten through the two-year college as well as formally at the secondary level, with illustrations given for each formal approach (conventional, coordinate, transformation, affine, vector); also discusses the education of teachers. 1973. 480 pp. | 9.00 |
| On Order | (37th) *Mathematics Learning in Early Childhood*. Colorful, abundantly illustrated resource book for teaching mathematics to children aged 3-8. Chapters on cognition, curriculum research, and teaching procedures are highlighted by hundreds of ideas and activities in an oversize format. Sets forth a developmental point of view toward learning, with emphasis on problem-solving and relating mathematics to the real world of the child. 1975. 316 pp. | 12.00 |
| | **GENERAL** | |
| 1 | *Computer-assisted Instruction and the Teaching of Mathematics*. Report of a national conference. Indepth discussions of the present status and future prospects of computer-assisted instruction. 1969. 152 pp. | 2.40 |
| 1 | *Computer Facilities for Mathematics Instruction*. Information on educational uses. 1967. 47 pp. | 1.10 |
| 1 | *An Introduction to Continued Fractions*, by Charles G. Moore. 1964. 96 pp. | 1.40 |
| 1 | *Mathematics for Elementary School Teachers*. This text is coordinated with the series of films with the same title. 1966. 211 pp. Hardback. | 5.00 |

8      *A Metric Handbook for Teachers*, edited by Jon L. Higgins. An introduction to the metric system, its history, ways to implement it at all levels, in-service and classroom activities, and teaching guidelines - 17 helpful articles, some reprinted from recent issues of the *Arithmetic Teacher*. 1974. 144 pp.      2.40

1      *Paper Folding for the Mathematics Class*, by Donovan A. Johnson. Fully illustrated. Directions for folding paper to illustrate basic constructions, geometric concepts, circle relationships, products and factors, polygons, knots, polyhedrons, and symmetry; also, paper folding as a recreation. 1957. 32 pp.      0.90

25      *A Portrait of 2*, by Lawrence A. Ringenberg. Several concepts of the number 2 in modern number theory. Revised 1964. 42 pp.      0.90

9      *The Pythagorean Proposition*, by Elisha S. Loomis. An historical review, presenting 370 demonstrations of the Pythagorean theorem. Volume I in the series Classics in Mathematics Education. 1968. 306 pp. Hardback.      6.70

1      *The Revolution in School Mathematics*. Account of the nature of developments in secondary mathematics programs during the late 1950s. 1961. 90 pp.      0.90

5      *Secret Codes, Remainder Arithmetic, and Matrices*, by Lyman C. Peck. Fun with secret codes to introduce mathematical ideas. Bibliography. 1961. 54 pp.      1.10

2      *Some Ideas About Number Theory*, by I. A. Barnett. An informal account of some of the more elementary results of number theory. Applications for the classroom are included. 1961. 71 pp.      1.10

5      *Teacher-made Aids for Elementary School Mathematics: Readings from the Arithmetic Teacher*, edited by Seaton E. Smith, Jr., and Carl A. Backman. Contains specific information on making and employing manipulative aids for the study of whole numbers, numeration, integers, rational numbers, geometry, and measurement. 1974. 186 pp.      3.00

5      *Teaching Mathematics in the Elementary School - What's Needed? What's Happening?* Jointly published with the NAESP. Directed toward elementary school principals and mathematics specialists, but also helpful to teachers and parents. 1970. 121 pp.      2.50

1      *Research and Development in Education: Mathematics*. A report of the Conference on Needed Research in Mathematics Education. 1967. 142 pp.      2.00

6      *Teaching Elementary School Mathematics*, by Herbert F.

Spitzer.  What research Says to the Teacher series, no. 2.  1970.  31 pp.                                                      0.50

On Order    *Boxes, Squares, and Other Things: A Teacher's Guide for a Unit in Informal Geometry*, by Marion I. Walter. Helps elementary school children visualize two- and three-dimensional objects and introduces geometric transformations, symmetry, group theory.  May be adapted to the secondary level.  1970.  88 pp.            1.80

On Order    *Historical Topics in Algebra*.  Paperback publication of a portion of 31st Yearbook makes widely available this material on algebra, valuable to both teachers and students.  1971.  72 pp.                               1.20

On Order    *Mathematical Challenges: Selected Problems from the 'Mathematics Student Journal'*, compiled and annotated by Mannis Charosh.  A variety of challenging problems not usually met in the classroom.  1965.  135 pp.      1.50

On Order    *Mathematical Challenges II -- plus Six*, edited by Thomas Hill.  Includes 100 problems selected from the 'Mathematics Student Journal' since 1965; plus six entertaining articles, three written by high school students.  1974.  128 pp.                               2.55

On Order    *Perfect Numbers*, by Richard W. Shoemaker.  Acquaints the student with the long, intriguing history of perfect numbers, and points out the many interesting ties with secondary school mathematics; some exercises provided.  1973.  32 pp.                              1.00

On Order    *Readings in Geometry from the 'Arithmetic Teacher'*, edited by Marguerite Brydegaard and James E. Inskeep, Jr.  Guidance for teaching K-8 geometry is given in articles reflecting a new concept of geometry for the elementary school.  An informal approach emphasizes the learner's spatial environment and his intuitive grasp of ideas such as position, distance, size, and shape.  1970.  121 pp.                              2.30

These books may be ordered from Dr. W. George Cathcart, Department of Elementary Education, University of Alberta, Edmonton, Alberta,  T6G 2G5.

Please send a money order or cheque for the total order.  MCATA will pay postage.

These books will also be available at the Annual Meeting in Calgary, Alberta, October 3-4, 1975.