DOCUMENT RESUME

ED 052 057

SE 012 052

AUTHOR
TITLE
INSTITUTION
REPORT NO
PUB DATE

Flint, Deloris
Supplement to District Math Guide 1970-71.
Fountain Valley School District, Calif.
Curr-Bull-Math-17

71 52p.

EDRS PRICE DESCRIPTORS

NOTE

EDRS Price MF-\$0.65 HC-\$3.29

*Audiovisual Aids, Catalogs, Classroom Materials,
*Elementary School Mathematics, Instructional Aids,
*Instructional Materials, *Manipulative Materials,
Mathematics Education, *Teaching Guides

ABSTRACT

This teachers' guide lists manipulative aids, audio-visual materials, and demonstration materials for use in the elementary school mathematics classroom. Organization of the guide follows that of the California Strands Report (1967-68), as represented by these nine strands of mathematical content: numbers and numerals, geometry, measurements, applications, statistics and probability, sets, functions and graphs, logic, and problem solving. Catalog numbers and addresses of suppliers for all equipment are included. (RS)



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FOUNTAIN VALLEY SCHOOL DISTRICT

Educational Services

Curriculum Bulletin Mathematic #17

SUPPLEMENT TO DISTRICT MATH GUIDE 1970-71

Developed By:

Deloris Flint

SE 012 052

Table of Contents

					PAGE
INTRODUC	rion		 		. 1
STRAND 1	(Numbers and Numerals, Number matical Operations)	Aids	 	• • •	. 2 . 2 . 3-4
STRAND 2	(Geometry)	Aids	 		. 18
STRAND 3	(Measurements)	Aids	 		. 23-24 . 25
STRAND 4	(Applications of Mathematics) Multi-Media Materials .				
STRAND 5	(Statistics And Probability) Multi-Media Materials .				
STRAND 6	(Sets)		 		. 33
STRAND 7	(Functions and Graphs) Mathematical Aids				
STRAND 8	(Logical Thinking) Mathematical Aids				
STRAND 9	(Problem Solving) Multi-Media Aids				. 39 . 39
	(list of Suggested Publishers)		 	• • •	. 40



INTRODUCTION

The California State Board of Education adopted the new mathematics text-books for kindergarten through the eight grade level. These books are consistent with the revised <u>Strands Report</u> (1967-68) of the statewide Mathematics Advisory Committee. This revised report reflects the current developments and trends in the field of mathematics education.

The materials in the state adopted basic series should not be thought of as the total mathematics program. Less than one-half of the allotted math period should be involved with the text, with the remainder of the period devoted to varied experiences. Sometimes students may need further experiences with manipulative aids, audio-visual materials and demonstration materials after working with a page in the text. A return to objects at this point is not always a regression, but can be a valuable repetition of the concrete-to-abstract sequence, returning to previous experiences for further interpretation and insight. This guide has been developed to support this aspect of the teaching-learning process. Suggested teaching aids which are available from the various publishing companies are listed, as well as multi-media materials in our Curriculum Material Center.

The guide of suggested teaching aids and multi-media materials has been listed according to the nine strands of mathematical concepts.

Symbols listed designate the Publisher's Catalog used as a basis for recommending the various commercial aids. A complete listing of suggested publisher's mailing address may be found in the Appendix.

(CP)	Creative Publications	
(SC)	Stationers Corporation	
(IPC)	Instructo Products Co.	
(CCOA)	Cuisenaire Co. of America, In	c.
(HM)	Houghton-Mifflin	

The prices quoted are from the Publisher's Catalogs at the time the guide was written and are therefore subject to change.

These aids and materials should be incorporated purposefully into the mathematics program, and be used horizontally to reinforce skill or vertically to introduce new skills. Although they are listed by the Strands, many aids may be interchanged.

It should be remembered that educational materials are aids and aids only; not ends in themselves. The teacher is the key to excellence in teaching.



-1-

Number Sentences

Number Theory

Mathematic Operations



STRAND I

COMMERCIAL MATHEMATICAL AIDS

Catalog Number	Description	Cost	Publisher
мьм- 3	Japanese Abacus Beautiful and sturdy spindles. Made from plastic. Measures 2' booklet enclosed.	colorful high	quality
MLM-4	Chinese Abacus Plastic abacus measu Ideal for use on the		
MLM-2	Multifactor Eighty-one plastic contouch of a finger to one digit combination	reveal the pr	
CX-3E	Each kit contains 24 sets of Cuisenaire coplastic containers what storage. In each content colors and ten set the relationship of a The brightly colored non-toxic with one of finishes for wooden a convenience, each kit cardboard tray to fit learning center shelf	\$59.50 individual st clored rods in nich stack for ntainer are 72 lzes to exactl numbers to one rods are dural f the world's games and toys t comes in a s on any class	sturdy easy rods in y model another. ble and finest . For turdy
780 Pupil's	Number Line (K-3) Each student has his repeated use with was 0-25.		oated for
780 T	Teacher's Number Line (K-5) Large black numerals red line-dot pattern 4" x 36".	\$1.00 from 20 to 10	
977	Flannel Board Sturdy wood frame wit 28" x 40".	\$10.00 Th beige flann	(SC)



 $\frac{-2}{5}$

MATHEMATICAL AIDS

MATHEMATICAL AID	DESCRIPTION	CATALOG NUMBER
Numeral Number Counting Beads	5 x 5	M-3
Toss and Add	Egg Carton	M-6
Addition Facts - Snail	Circle	M-8
Math Mix W/D	1" x 1" Cubes	M-9
Fact Finder		M-13
Perception Numerals	9" Numbers with	M-16
	Perception Dots	
Place Value Chart	19 x 13	M-17
Pegboard - Numeral and Golf Tee Matching		M-19
Division - 1 thru 9	6 x 25	M-19
Four Equals Ten	16 Cards	M-20
Number Mobiles	12 x 9	M-21
Small Rolo (Addition Combinations to 10)	5 x 16	M-25
Concrete to Abstract Number Puzzles		M-26
Cuisenaire or Centimeter Rods		M-27
Tens	$11\frac{1}{2} \times 8 - 3/4$	M-28
Visual Multiplication		M-30
Place Value Pegboard	12 x 12	M-33
One Hundred Board with Tags (Wood)	24 x 24	M-37
Numbers have many Names	Circle	M-43
Snap	2 x 3	M-44
Acetate Matrix	10 x 10	M-45
Freddie the Computer	19 x 26	M-46
Peanuts Figures - Addition		M-47
Number, Word, and Dot Jigsaw	$12 \times 4 - 3/4$	M-48
Abacus		M-49
Numeral Fun (Jigsaw 0-9)	•	M-50
Number Sequence	44 x 11	M-53
Acetate Matrix	14 x 14	M-56
Addition Wheel - Changeable Disks		M-58
Number, Perception Jigsaw Puzzle	7 ж 26	M-59
Fill in Numbers (1-100)	8½ x 16	M-60
Addition Fact Wheel	5 Wheel	M-61
Pegboard Numerals 1-6	10 x 10 Pegboard	M-62
Grouping	19 x 14	. M−64
Symbol Bingo	10 x 10	M-69
Symbol Flash Cards	3 x 5	M-70
Build a House		M-71
Multiplication Slide Scale	26 x 8	M-201
Multiplication Wheel	Circle	M-204
Napier Rods	$3/4 \times 3/4$	M-206
Ratio Bingo		M-207
Six or One	13 x 19	M-208
(1 Dice Set Multiplication Cards)		
Hundred Board (Tees)	10½ x 10½	M-210
Place Value Abacus		M-211
Fraction Board (Wood)	$12 \times 9 - 3/4$	M-213
	·	



-3-

MATHEMATICAL AID	DESCRIPTION	CATALOG NUMBER
Multiplication Bingo	8 x 8	M-215
Number Line	24 x 5	M-218
Shake and Count - Addition,	13 x 9	M-219
Subtraction, Multiplication	<i>:</i>	
Upper Math Mix	Cylinder	M-220
Fraction Kit (Wood)	10 x 14	M-223
Fraction Concept Kit	9½ x 13	M-229
Multiplication Facts	Peanuts Figures	M-231
Short Way Home - Short Division	$18\frac{1}{2} \times 18\frac{1}{2}$	M-234
•	2 Cars 7 Cards	
Multiplication and Division Wheel	5" Wheel	M-235
Base Checkers		M-236
Ratio Roundup		M-240
Bing Tac		M-242
Fact Board		M-243
Fraction Spin-Matho		M-244
A Game of Fractions		M-245



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMS		
Addition for beginners Big numbers little numbers Discovering numerals Division for beginners Doing and undoing in mathematics: inverses Donald in Mathemagic Land (Disney) How little, how big Modern mathematics: number sentences Modern mathematics: number line More or less Numbers Percent - why and how Place value: ones, tens, hundreds Positive and negative numbers A positive look at negative numbers Story of our number system Subtraction for beginners Ten little Indians, (beginning subtraction concepts)	K - 4 4 - 4 5 - 8 4 - 5 6 8 6 - 4 7 - 6 8 - 4 8 -	F 386 F 200 F 153 F 380 F 198 F 2034 F 314 F 103 F 1088 F 199 F 393 F 376 F 108 F 1249 F 14 F 112 F 375
FILMSTRIPS		
Adding and Subtracting Decimals Adding and Subtracting two-place numbers Adding Fractions Adding Fractions Adding with Fractions Addition and Subtraction: Greater than,	4 - 8 K - 2 3 - 8 3 - 8 3 - 8	FS 2964 FS 1572 FS 2705 FS 2956 FS 3108
Less than, Equal Addition and subtraction: Two and Three place numbers Addition and Subtraction Advances: Greater	K - 4 1 - 3	FS 2227 FS 2062
than less than Equal Addition and Subtraction are related Addition and Subtraction I (1-10) Addition and Subtraction II (10 & more) Addition and Subtraction Concepts Addition and Subtraction of Decimals Addition and Subtraction of Decimals Addition and Subtraction of Fractions	1 - 4 1 - 6 1 - 3 1 - 3 K - 2 K - 2 4 - 8 4 - 8 4 - 8 5 - 8	FS 2231 FS 3110 FS 3347 FS 3348 FS 447 FS 1628 FS 1069 FS 1399 FS 1394 FS 2018 FS 1603
R -5-		10 1003

TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS, continued		
Addition and Subtraction of Whole Numbers Addition Equations $0-9$ Addition Equations $0-9$ Addition Equations $0-20$	5 - 8 K - 4 K - 4 K - 4	FS 1596 FS 2222 FS 2223 FS 2228
Addition Equations 1 - 5 Addition Equations 1 - 5 Addition - Objects and Symbols Addition of Fractions Addition with Decimals Advancing with Addition, Subtraction,	K - 4 K - 4 1 - 3 4 - 8 3 - 8	FS 2217 FS 2218 FS 1365 FS 1078 FS 3103
Multiplication and Division Arithmetical Concepts Arithmetical Concepts Base Six - Addition, Subtraction,	2 - 4 K - 2 K - 2	FS 1375 FS 443 FS 1625
Multiplication Binary (Base Two) Addition, Subtraction, Multiplication, Division Changing Fractions to Decimals	5 - 8 5 - 8 4 - 8	FS 2026 FS 2028 FS 1071
Changing Fractions to Decimals Changing the Grouping, Multiplication and Division Changing the Order: Addition and	4 - 8 3 - 4 3 - 4	FS 1402 FS 821 FS 818
Subtraction Changing the Order: Multiplication and Division Changing the Grouping: Addition and	3 - 4	FS 81 9
Subtraction Changing the Grouping: Multiplication and Division Closure, Commutative and Associative	3 - 4	FS 5820 FS 821
Properties, The Column Addition Common Denominators Commutative Property of Multiplication	4 - 8 K - 2 3 - 8 2 - 6	FS 1409 FS 1569 FS 295 FS 2802
Comparing Decimals Comparing Fractions Computing Square Roots Count to Find Out	4 - 8 3 - 8 7 - 8 K - 2	FS 2963 FS 2493 FS 1915 FS 1555
Counting Process, The Counting Sets in Many Ways Counting to 20 by 1's, 2's, and 5's Decimal Numerals Decimal Numeration System	1 - 8 1 - 3 K - 2 6 - 8 4 - 8	FS 1615 FS 2860 FS 1566 FS 1610 FS 2786
Decimals and Common Fractions	4 - 8	FS 2962



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS, continued		
Decimals in Division	4 - 8	FS 2800
Decimals in Multiplication	4 - 8	FS 2799
Different Differences (Fractions)	3 - 6	FS 2896
Different Names for Same Fractional Number	4 - 8	FS 1077
Distributive Property, The	3 - 4	FS 822
Distributive Property, The	4 - 8	FS 1410
Dividing Decimals	4 - 8	FS 2966
Dividing Fractions	3 - 8	FS 2709
Dividing Things into Parts	1 - 6	FS 991
Dividing Whole Numbers by Fractions	4 - 8	FS 1011
Dividing Decimals	4 - 8	FS 1013
Division Facts	2 - 4	FS 1378
Division Facts	2 - 4	FS 2040
Division Objects and Symbols	1 - 3	FS 1388
Division of Decimals	4 - 8	FS 1067
Division of Decimals	4 - 8	FS 1401
Division of Fractional Numbers	5 - 8	FS 2021
Division Equations 2 and 3	$\frac{1}{1} - 4$	FS 2210
Division Equations 4 and 5	1 - 4	FS 2211
Division Equations 6 and 7	1 - 4 1 - 4	FS 2212 FS 2213
Division Equations 8 and 9 Division Equations 1 through 9	1 - 4	FS 2213
Division of Fractions	4 - 8	FS 1081
Division with Remainders	3 - 6	FS 1587
Equal Groups, 4 and 5	3 - 6	FS 1588
Equal Groups, 6 and 7	3 - 6	FS 1589
Equal Groups, 8 and 9	3 - 6	FS 1590
Equalities and Inequalities	5 - 6	FS 836
Equation	5 - 6	FS 839
Equations and Inequalities	2 - 5	FS 3385
Equidecomposable Figures	6 - 8	FS 1609
Equivalence Relations Among Fractions	6 - 8	FS 1607
Equivalent Open Sentences	4 ~ 8	FS 1414
Experience With Comparisons	2 - 4	FS 459
Experiences with Counting	2 - 4	FS 457
Experiences With Fractions	2 - 4	FS .460
Experiences With Numbers	2 - 4	FS 458
Exploring Numbers	3 - 8	FS 3346
Exponents	4 - 6	FS 3364
Factors and Primes	3 - 8 4 - 6	FS 2706
Factors and Primes Factors and Products	4 - 6 5 - 8	FS 3359
ractors and rioducts	J - 0	FS 1598



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS, continued		
Finding Simplest Fractional Names - Factoring	4 - 8	FS 1883
Finding Square Roots	5 - 8	FS 1619
Finite Arithmetics	6 - 8	FS 1007
Fraction Facts	3 - 6	FS 3892
Fraction Finding	3 - 6	FS 3899
Fraction Forms	3 - 6	FS 3894
Fraction Numerals: Concepts	4 - 8	FS 1393
Fraction Numerals: Concepts	4 - 8	FS 2017
Fractional Parts of Groups 1/2, 1/3, 1/4	1 - 4	FS 2490
Fractional Parts of a Whole 1/2, 1/3, 1/4	1 - 4	FS 2489
Fractional Parts of a Whole and Groups	. 3 - 8	FS 2491
Fractional Parts of a Whole and of Sets	2 - 8	FS 3115
Fractions	2 - 4	FS 1380
Fractions	2 - 4	FS 2042
Fractions in Decimal Notation	5 - 8	FS 1604
Fractions in Division	6 - 8	FS 1613
Fractions in Multiplication	6 - 8	FS 1612
Fractions of a Group	3 - 8	FS 2954
Frame Arithmetic	3 - 6	FS 3088
Fundamental Theorem of Arithmetic	4 - 8	FS 1882
Game of "How Many", The	2 - 4	FS 452
Greater Than, Less Than, Equal	1 - 4	FS 2216
Greatest Common Factor	4 - 8	FS 2788
History of Our Number System	1 - 6	FS 99 8
How Large is a Fraction	3 - 8	FS 2955
How Many in All - How Many Left	K - 2	FS 1563
Identity and Inverse Properties	4 - 8	FS 1411
Introduction: Division by Fractional Numbers	4 - 8	FS 1871
Introduction to Algebra	6 - 8	FS 1004
Introduction to Decimals	4 - 8	FS 2961
Introduction to Irrational Numbers	4 - 8	FS 2791
Introduction to Per Cent	4 - 8	FS 2798
Introduction to Percentage	5 - 8	FS 2967
Inverse Operations - Multiplication and Division	2 - 5	FS 3382
Investigation Closure - Addition and		
Substraction	2 - 5	FS 3384
Investigating Closure - Multiplication		
and Division	4 - 8	FS 3396
Investigating Fractional Numbers	4 - 8	FS 3397
Investigating Integers	4 - 8	FS 3394



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS, continued		
Investigating Negative Numbers Language of Fractions Learning About Equations Learning About Inequalities Least Common Multiples Let's See How to Add By Endings Let's See How to Divide Let's See How to Multiply Let's See How to Subtract By Endings Linking Multiplication and Addition Matching Numbers Matching Numbers Meaning and Reading of Decimals Meaning and Reading of Decimals Meaning and Understanding of Per Cent, Percentage Meaning of Decimals Meaning of Fractions Meaning of Fractions Meaning of Fractions Meaning of Numbers One Through Ten, The	2	FS 3387 FS 1076 FS 830 FS 833 FS 2797 FS 1576 FS 1582 FS 1581 FS 1577 FS 2805 FS 2323 FS 2496 FS 1068 FS 1068 FS 1398 FS 2046 FS 1592 FS 1010 FS 2708 FS 3357 FS 2325
Meaning of Numbers One Through Ten, The Meaning of Numerals Measures Measures; Counting, Adding, Subtracting Measures; Counting, Adding, Subtracting Logarithms and Interpolation	K - 3 2 - 6 5 - 8 2 - 4 1 - 3 7 - 8	FS 2498 FS 2865 FS 1601 FS 1370 FS 2060 FS 1953
Mixed Numbers More Numbers and Numerals Multiplication and Division Multiplication and Division are Related Multiplication and Division of Whole Num-	3 - 8 1 - 2 1 - 3 2 - 6	FS 2958 FS 835 FS 3352 FS 3112
Multiplication Equations 2 and 3 Multiplication Equations 4 and 5 Multiplication Equations 6 and 7 Multiplication Equations 8 and 9 Multiplication Equations 0 and 9 Multiplication - Objects and Symbols Multiplication of Decimals Multiplication of Decimals Multiplication of Fractions	1 - 4 1 - 4 1 - 4 1 - 4 1 - 3 4 - 8 4 - 8	FS 2205 FS 2206 FS 2207 FS 2208 FS 2209 FS 1387 FS 1070 FS 1400 FS 1080



	TITLE	GRADE LEVEL	
MATHEMATICS	•		
FILMSTRIPS,	continued		
Multiplication of		4 - 8	
Multiplication of		4 - 8	
Multiplication Wit		3 - 8	
Multiplying and Di		1 - 3	
Multiplying Decima		4 - 8	
Multiplying Fracti		3 - 8	
Multiplying Fracti		3 - 8	
Names for Large Nu	umbers	6 - 8	
Names for Numbers		3 - 8	
Naming Numbers		5 - 6	
Negative Numbers		4 - 8	
	ion and Subtraction	6 - 8	
	lplication and Division	6 ~ 8	FS 1606
	ition and Subtraction	2 - 4	FS 1373
	ition and Subtraction	1 - 3	
Non-Decimal Numera		4 - 8	
	s of a Whole and Groups	3 - 8	
Number Bases		3 - 8	FS 3345
Number Fields		6 - 8	FS 1773
Number Fields		6 - 8	FS 1869
Number Line, The		4 - 8	FS 1407
Number Line - Frac		3 - 6	FS 1382
Number Line - Frac	ctions	3 - 6	FS 2044
Number Line - Whol	Le Numbers	2 - 4	FS 1381
Number Line - Whol	le Numbers	2 - 4	
Number Patterns -	Averages	3 - 8	
Number Stories of	7 and 8	K - 2	FS 1567
Number Stories of	9 and 10	K - 2	FS 1568
Number Stories of	11 and 12	1 - 2	FS 1573
Number Stories of	13 to 18	1 - 2	FS 1574
Numeration - Base	Six	5 - 8	FS 2025
Numeration - Base	Ten	2 - 5	FS 1383
Numeration - Base	Ten	2 - 5	FS 2045
Numeration - Binat	ry (Base Two)	5 - 8	FS 2027
Numbers All Around	i Us	1 - 3	FS 979
Numbers and Numera	als	1 - 2	FS 834
Numbers and Numera	als	K - 2	FS 2853
Numbers, Numerals,	and Operations	5 - 8	FS 1595
Numbers 1 to 5, Th		K - 2	FS 1556
Numbers 6 to 10, 7		K - 2	
Numbers 11 to 19,		K - 2	
Numbers Through th		3 - 8	
	Five	4 - 8	
			··



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS, continued		
Numeration: Base Five One Hand Arithmetic - Base Five Open Sentences Open Sentences Operations With Decimals Origin and Meaning of Fractions Our Number System Patterns in Numbers Percent Place for Hundreds, A Place Value Place Value Place Value Place Value Flace Value Place Value Place Value Servational Numbers Properties of Fractional Numbers Properties of Integers Properties of Multiplication: Fractional Numbers Properties of Numbers: Addition and Subtraction Properties of Numbers: Multiplication and Division Putting Together and Taking Apart Quotient Quests (Fractions) Rational Number System Rational Numbers of Arithmetic Reading and Writing Whole Numbers Recording Division Regrouping by Ones and Tens Regrouping Tens and Hundreds	4347433713323444 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	FS 2015 FS 3097 FS 1406 FS 2794 FS 829 FS 1074 FS 3344 FS 3104 FS 2859 FS 1803 FS 3109 FS 2803 FS 3398 FS 3398 FS 3395 FS 3362 FS 3362 FS 3362 FS 3898 FS 2795 FS 1620 FS 3351 FS 1593 FS 1579 FS 1580
Renaming Numbers for Multiplication Renaming Numbers for Subtraction	2 - 8 2 - 6	FS 1580 FS 3114 FS 3111
Seeing the Use of Fractions Short Form of Division, The Sign Language (+, -, and = signs to 6) Simple Addition Advanced	2 - 4 4 - 8 K - 2 1 - 3	FS 1575 FS 2796 FS 1565 FS 1385
Simple Subtraction, Advanced Some Sums (Fractions) Speed-I-O Strip Series: Addition - 15	1 - 3 3 - 6	FS 1386 FS 3895
Easiest Combinations Speed-I-O Strip Series: Addition - 19 Zero Combinations	K - 3 1 - 3	FS 2405 FS 2407
Speed-I-O Strip Series: Addition - 30 Easy Combinations	1 - 3	FS 2406

TITLE	GRADE	CATALOG NUMBER
	LEVEL	NUPIDER
MATHEMATICS		
FILMSTRIPS, continued		
Speed-I-O-Strip Series: Addition - 36		2/22
More Combinations	1 - 3	FS 2408
Speed-I-O-Strip Series: Division - Group I	3 - 8	FS 2401
Speed-I-O-Strip Series: Division -	•	:
Group II	3 - 8	FS 2402
Speed-I-O-Strip Series: Division - Group III	3 - 8	FS 2403
Speed-I-O-Strip Series: Division -		TG 0/0/
Group IV	3 - 8	FS 2404
Speed-I-O-Strip Series: Multiplication - Group I	1 - 3	FS 2413
Speed-I-OStrip Series: Multiplication -		
Group II	1 - 3	FS 2414
Speed-I-O-Strip Series: Multiplication -	1 - 3	FS 2415
Group III	1 - 3	10 2413
Speed-I-O-Strip Series: Multiplication -	1 - 3	FS 2416
Group IV Speed-I-O-Strip Series: Subtraction - 15		
Easiest Combinations	1 - 3	FS 2409
Speed-I-O-Strip Series: Subtraction - 19	1 - 3	FS 2411
Zero Combinations	1 - 3	F5 2411
Speed-I-O-Strip Series - Subtraction: 30	1 - 3	FS 2410
Easy Combinations Speed-I-O-Strip Series - Subtraction: 36		
More Combinations	1 - 3	FS 2412
	к - 3	FS 2321
Story of Numbers, The	K - 3	FS 2494
Story of Numbers, The	K - 2	FS 1570
Subtract to Find Out	4 - 8	FS 2707
Subtracting Fractions	4 - 8	FS 1412
Subtraction and Division	K - 4	FS 221 9
Subtraction Equations 1 - 5	K - 4	FS 22 20
Subtraction Equations 1 - 5	K - 4	FS 2224
Subtraction Equations 0 - 9	K - 4	FS 2225
Subtraction Equations 0 - 9	K - 4	FS 2229
Subtraction Equations 0 - 20	1 - 3	FS 1366
Subtraction - Objects and Symbols	4 - 8	FS 1079
Subtraction of Fractions	5 - 6	FS 837
Systems of Numeration	K - 2	FS 1561
Taking a Group Apart	3 - 6	FS 1585
Talking About Numbers	3 - 6	FS 1586
Talking About Parts Tests for Divisibility	4 - 8	FS 1617
169 (9. 101.07.47070)		



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS, continued		
This is Algebra	4 - 8	FS 3087
True/False Statements and Open	_	
Sentences	5 - 6	FS 838
Two-Figure Divisors	4 - 8	FS 1014
Two Properties of Addition	2 - 6	FS 2804
Understanding Hundreds, Tens and Ones	K - 2 2 - 4	FS 1571
Understanding the Structure of Numbers	1 - 3	FS 1368
Understanding the Structure of Numbers Understanding Time and Chronology	4 - 8	FS 2058 FS 1891
Understanding Whole-Number Operations	2 - 6	FS 2866
Uses of Fractions	4 - 8	FS 1075
Using and Understanding Two and Three-	4 0	15 10/5
Place Numbers	2 - 4	FS 1369
Using and Understanding Two and Three-		10 1007
Place Numbers	1 - 3	FS 2059
Using Mixed Numbers	3 - 8	FS 2959
Using One to Rename - Fractions	3 - 8	FS 3107
Using Per Cent	4 - 8	FS 2790
Using Percentage	5 - 8	FS 2968
Using the Mathematics You Know	5 - 8	FS 1624
Using the Teen Facts	2 - 4	FS 1578
Using What You Have Learned	2 - 4	FS 1584
Vocabulary I (Review of Terms and		
Relative Size and Position)	K - 2	FS 1564
Ways of Looking at Percent	4 - 8	FS 3083
We Learn Numbers	K - 2	FS 444
We Learn Numbers	K - 2	FS 1626
We Learn Numbers	K - 2	FS 445
We Learn Numbers What are Numbers	K - 2 1 - 3	FS 1627
What Do You Know	3 - 6	FS 3350
What is a Fraction	3 - 8	FS 1594 FS 2952
What One Half Means	K - 3	FS 2499
What Sign is Missing + and - equations	K - 3	FO 2433
0-9	K - 4	FS 2226
What Sign is Missing + and - equations	•	10 2220
0-20	K - 4	FS 2230
What Sign is Missing + and - evaluations	,	75 2200
1-5	K - 4	FS 2221
What Sign is Missing	1 - 4	FS 2215
Work and Play With Numbers 5 and 6	K - 2	FS 448
Work and Play With Numbers 5 and 6	K - 2	FS 1629
Work and Play With Numbers 7 and 8	K - 2	FS 449
Work and Play With Numbers 7 and 8	K - 2	FS 1630



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS, continued		
Work and Play With Numbers 8 and 9	K - 2	FS 450
Work and Play With Numbers 8 and 9	K - 2	FS 1631
Work and Play With Numbers 9 and 10	K - 2	FS 451
Work and Play With Numbers 9 and 10	K - 2	FS 1632
Work and Play With Number 11	K - 2	FS 434
Work and Play With Number 11	K - 2	FS 1633
Work and Play With Numbers 12 and 13	K - 2	FS 435
Work and Play With Numbers 12 and 13	K - 2	FS 1634
Work and Play With Numbers 14 and 15	K - 2	FS 436
Work and Play With Numbers 14 and 15	K - 2	FS 1635
Work and Play With Numbers 16 and 17	K - 2	FS 437
Work and Play With Numbers 16 and 17	K - 2	FS 1636
Work and Play With Number 18	K - 2	FS 438
Work and Play With Number 18	K - 2	FS 1637
Work and Play With Number 19	K - 2	FS 439
Work and Play With Number 19	K - 2	FS 1638
Work and Play With Number 20	K - 2	FS 440
Work and Play With Number 20	K - 2	FS 1639
Work and Play With More Problems	K - 2	FS 442
Work and Play With More Problems	K - 2	FS 1641
Work and Play With Problems	K - 2	FS 441
Work and Play With Problems	K - 2	FS 1640
Working With Equal Groups	2 - 4	FS 1583
Working With Fractions	5 - 8	FS 1599
Working With Fractions	4 - 6	FS 3358
Writing Fractions	3 - 8	FS 2953
What One Half Means	K - 3	FS 2326
Zero and One	2 - 5	FS 3386
Zero and Multiplication	4 - 8	FS 1012
Zero - The Forgotten Number	5 - 8	FS 3900
RECORDS		
Acting out the ABC's		R-LP-198
Best in Children's Literature: Numbers		W-FL-130
and Time		R-LP-389
Facts With Sums/Minuends 9-0 and Products/		パーロレーコのカ
Dividends 0-20		R-LP-356
Facts With Sums/Minuends 11-18 and		パーロにようつの
Products/Dividends 21-81		R-LP-357
Learning the ABC's and How to Count		R-LP-118
Math Made Meaningful - Volume I		R-LP-118
Math Made Meaningful - Volume II		R-LP-299
nach hade healthgrat vorume tr		N- DE233



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
RECORDS, continued	•	
Math Made Meaningful - Volume III "Mr. Arithmetic" Number Fact Drill,		R-LP-442
Addition 1-20 "Mr. Arithmetic" Number Fact Drill,		R-45-7
Multiplication "Mr. Arithmetic" Number Fact Drill,		R-45-9
Subtraction "Mr. Arithmetic" Number Fact Drill,		R-45-8
Fractions, Division "Mr. Arithmetic" Number Fact Drill,		R-45-14
Percentage One to Ten and ABC		R-45-15 R-78-46
Rhythm Record		R-LP-128
TRANSPARENCIES		
Addition of Fractions Addition Table		TR 199 (1) TR 211 (1)
Associative Law (Grouping)	1 - 4	ŤR 231 (1)
Associative Property	1 - 3	TR 370 (1)
Binomial Squared	_ •	TR 276 (1)
Commutative Law	1 - 4	TR 232 (6)
Commutative Property	1 - 3	TR 369 (1)
Conversation Chart	4 - 8	TR 223 (1)
Counting by 1's, 2's, 5's, and 10's	K - 3	TR 367 (2)
Decimal Number Line (Addition and		• •
Subtraction		TR 195 (1)
Decimal Number Line (Multiplication		
and Division)		TR 194 (1)
Equalities and Inequalities	1 - 3	TR 368 (3)
Fractional Number Line		TR 198 (1)
Fractions	1 - 3	TR 360 (3)
Introduction to Algebra		TR 341 (12)
Meaning of Per Cent	4 - 8	TR 422 (1)
Modern Base Ten Abacus		TR 196 (1)
Multiplication of Principles		TR 206 (1)
Number Bases	4 - 8	TR 359 (3)
Number Line		TR 213 (1)
Number Line (Multiplication Series)		TR 205 (1)
Number Line (Signed Numbers)	4 - 8	TR 219 (1)
Ordinals First to Fifth	K - 3	TR 365 (1)
Ordinals First to Tenth	K - 3	TR 366 (3)



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
TRANSPARENCIES, continued		
Place Value - Decimals Place Value - Whole Numbers Pre-Algebra Mathematics Sieve of Eratosthenes Squares and Square Roots of Numbers Subtraction of Fractions Subtraction Systems of Writing Numerals Skip Counting	3 - 8 1 - 8 4 - 8 5 - 8	TR 357 (3) TR 356 (2) TR 342 (12) TR 216 (4) TR 415 (3) TR 197 (1) TR 210 (1) TR 221 (2) TR 208 (1)
EXHIBITS	•	
Abacus Fraction - Decimal - Percent Practice Board Number Concept Frames Slide Rule Slide Rule Slide Rules (48")	5 ~ 8 4 ~ 8	EX 39 (1) EX 90 (5) EX 74 (12) EX 73 EX 103 (2) EX 87
BOOKS		
Adding: A Poem; Rosetti, Christina Arithmetic Can Be Fun; Leaf, Munro Arithmetic For Beginners; Lansdown, Brenda Arithmetic For Billy Goats; Barr Captain Murphy's Tugboats; Hall, William Counting Lightly; Simon, Leonard Delight In Number; Jacobs, Leland B. Eleven and Three Are Poetry; Nohelty, Salley Five is 5; Fehr, Howard, F.		E 511 Le 511 La 510 Ba E E E E 808.1 No
Four Threes Are 12; Wright, H. From Zero To Infinity; Reid, Constance I Can Count; Memling, Carl If You Can Count To 10; Fehr, Howard F. Instant Math; Cutler, Ann Let's Imagine Numbers; Wolff, Janet Mathematics Illustrated Dictionary; Bendick, Jeanne Mystery of the Farmer's Three Fives; Friskey, Margaret,		E 511 Re E E 510 Cu E 510.3 Be



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
BOOKS, continued		
Numbers: A Book To Begin On; Waller,		
Leslie		511 Wa
Number Men; True, Louise		E
Numberals, New Dresses For Old Numbers;		
Adler, Irving		511 Ad
One Boy Lives In My House; White, Florence		E
One, Two, Buckle My Shoe; Haley, Gail		E
One, Two, Three, Four; Considine, Kate		E
Poems For Counting; Quackenbush, Robert M.		808.1 Qu
Quick And Easy Math; Asimov, Isaac		510 As
Realm Of Numbers; Asimov, Isaac		510 As
Stretching Numbers; Simon, Leonard		E
True Book Of Numbers, The; Carona, Philip		511 Ca
Twenty White Horses; Grant, Eldon		511 Gr
Two Knots On A Counting Rope; Carpenters,		•
Walter S.		E



STRAND 2 Geometry



STRAND 2

COMMERCIAL MATHEMATICAL AIDS

Catalog Number	Description/ Grade Level	Cost	Publisher
MGP-6	Impuzzables (3-8) Each different inter puzzle is a differen of difficulty. Each Sold as a set of six	t color and a has hundreds	different degree
MGP-7	Soma Puzzle (2-8) 3-dimensional cube powho also wrote the dobooklet. The 7 SOMA in more than one milifascinating structure	uzzle by Pict l elightful 54-pa pieces can be lion ways, as v	age instructional made into a cube
MLM-1	Polyhedra Model Kit (4-8) Make your own polyhed contains the 5 basic fluorescent colors. assembled in minutes supplemental information	polyhedra mode Punch out pate . Also include	els in six terns are easily
MLP-3	Madagascar Madness (3-8) A five piece geometricase. Has definite theorem.	ic dissection p	
MLP-5	Pentagram Puzzle (7-8) More than 1,000 differentiangle from 12 disto illustrate symmetr	fferent pieces	. Can be used
794	Geometric Wire Forms and Patterns Five sturdy 8" wire is equilateral and right tough pressboard patt and squares with midpoint lateral. Directions	t triangle. Altern; 6", 4" arpoints; 6" x 3' ts; 3 triangles	lso includes nd 2" circles ", 4" x 2" rec-
1-14440	Kit of Geometric Shapes	\$1.35	Houghton Mifflin



TITLE	GRADE LEVEL	CATALOG NUMBER	
MATHEMATICS			
FILMS		,	
Angles and their measurement Circles and points Geometry: curves and circles Geometry: lines and shapes Geometry: points, angles, lines and tigers Geometry: some quadrilaterals Introducing shapes, lines and angles Mathematics of the honeycomb The meaning of pi Principles of scale drawing Prisms: some propertics Triangles: an introduction Triangles: sides and angles Triangles: types and uses	6 - 8 4 - 6 1 - 6 K - 4 4 - 8 K - 8 6 - 8 6 - 8 1 - 6 6 - 8	F 106 F 1309 F 203 F 201 F 102 F 1308 F 122 F 1210 F 269 F 268 F 1306 F 202 F 156 F 109	
FILMSTRIPS		•	
Advancing in Geometry Advancing in Geometry Angles Applying Geometric Logic Arcs and Areas of Circles Area Areas of Geometric Figures Areas of Polygonal Regions Areas of Triangular Regions Basic Geometry and Perimeters Bisecting Angles and Segments Circles and Spheres Circles I, Geometry Classification of Triangles Comparing Sizes Comparing Sizes Congruence Congruent Figures Construction With a Compass Coordinate Geometry Distance and Betweenness Experimenting With the Circle	4 - 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	FS 1390 FS 2013 FS 3243 FS 2982 FS 3251 FS 825 FS 2793 FS 3248 FS 2801 FS 3361 FS 1623 FS 2976 FS 2792 FS 2792 FS 2495 FS 3244 FS 1622 FS 3244 FS 3249 FS 3241 FS 3085	



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS, continued		
Geometric Logic: Deduction Geometric Logic: Induction Geometric Logic: Mistakes in Thinking Geometry in Art Geometry-Lines, Angles, Arcs, Measures Geometry-Perimeters, Areas, Formulas Geometry-Perimeters, Areas, Space Figures Geometry-Perimeters, Areas, Space Figures Geometry-Sets, Rays, Angles, Figures Geometry-Sets, Rays, Angles, Figures Geometry Vocabulary: Circles II Geometry Vocabulary: Triangles History of Area Measure How We Think in Geometry: Points, Paths Introduction to Plane Geometry Lines and Angles I: Geometry	5 - 8 5 - 8 5 - 8 5 - 8 5 - 8 5 - 8 4 6 6 6 8 8 5 - 8 8 1 - 8 5 - 8 8 5 5 - 8 8 5 5 - 8 8 5 5 - 8 8 6 5 5 - 8 8 6 8 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	FS 2983 FS 2984 FS 2985 FS 2981 FS 2022 FS 2023 FS 1391 FS 2014 FS 2041 FS 2977 FS 2974 FS 1002 FS 3113 FS 2970 FS 2971
Lines and Angles II: Relationships - Geometry Lines, Relationships: Geometry Locus: Geometry Parallelism Perimeters and Areas	5 - 8 5 - 8 5 - 8 6 - 8 5 - 8	FS 2972 FS 2973 FS 2980 FS 3246 FS 1602
Plane Figures Points, Lines and Planes Points, Lines and Planes Polygons Polygons: Geometry Postulates and Lines: Geometry	7 - 8 6 - 8 6 - 8 6 - 8 5 - 8 5 - 8	FS 827 FS 1786 FS 3242 FS 3247 FS 2975 FS 2978 FS 2979
Postulates: Triangles and Circles Proof Pythagorean Triples Rectangular Prisms Segments and Polygons Shapes Around Us, The Shapes Inside and Out Shapes, Parts of Shapes, Rays, and Angles	5 - 8 6 - 8 5 - 8 5 - 8 K - 2 1 - 3 2 - 6	FS 2979 FS 3245 FS 1618 FS 2852 FS 1621 FS 2856 FS 2862 FS 2868
Space Geometry - Surfaces and Volumes of Space Figures Special Right Triangles Topology	5 - 8 7 - 8 5 - 8	FS 2024 FS 1914 FS 1807



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
TRANSPARENCIES		
Area of a Circle		TR 272 (1)
Calibrated Circle	4 - 8	TR 353 (1)
Circle, The	3 - 8	TR 225 (3)
Circumference - Pi		TR 271 (1)
Classification of Plane Figures	5 - 8	TR 413 (8)
Degree Measurement (The Circle)		TR 202 (1)
Geometric Solids	7 - 8	TR 414 (4)
Measurement: Plane Figures	4 - 8	TR 358 (3)
Measuring and Using the Circle		TR 78 (19)
Pascal's Triangle	4 - 8	TR 21,7 (1)
Plane and Solid Figures	, , ,	TR 77 (21)
Plane Figures	4 - 8	TR 224 (2)
Pythagorean Theorem, The		TR 218 (4)
Pythagorean Theorem, The	4 - 8	TR 274 (1) TR 215 (3)
Regular Solids	4 - 0	1K 213 (3)
Simple Geometric Figures; Squares,		TR 209 (1)
Circles and Triangles Solid Figures		TR 200 (1)
Square, The	3 - 8	TR 226 (3)
Union, Intersection of Lines and Planes	3 0	TR 79 (20)
Value of Pi	•	TR 273 (1)
Visualizing Cross Sections - Plane and Cone		TR 188 (1)
Visualizing Cross Sections - Pland and		200 (2)
Sphere Sphere	4 - 8	TR 220 (1)
Visualizing Cross Sections - Plane and Cube	•	TR 190 (1)
Visualizing Cross Sections - Plane and		
Cylinder		TR187 (1)
· · · · · · · · · · · · · · · · · · ·		
EXHIBITS		
Circle Meter	5 - 8	EX 89 (8)
Geometric Wire Forms and Patterns		EX 77
Geometric Wood Forms		EX 76 (13)
BOOKS		
Adventures In Geometry; Ravielli, Anthony		513 Ra
Archimedes; Gardner, Martin		92 Ar
Archimedes And The Door of Science; Bendick,		
Jeanne		92 Ar
Fun With Figures; Freeman, Mae		513 Fr
Pound Is A Pancake; Sullivan, Joan		E



TITLE GRADE LEVEL	CATALOG NUMBER
MATHEMATICS	
BOOKS, continued	
Shapes; Benedick, Jeanne	513 Be
Take Shapes, Lines And Letters; Benedick, Jeanne	510 Be
This Is 4: The Idea Of A Number; Razell,	
Arthur What Shape Is It; Hatcher, Charles	513 Ha



STRAND 3 Measurements



STRAND 3

COMMERCIAL MATHEMATICAL AIDS

•	Description/		
Catalog Number	Grade Level	Cost	<u>Publisher</u>
738	Meter Stick Accurately marked 3/16" thick, 1-1/	d, printed 1 ed	Stationers Corp. lge on both sides.
756	One Square Yard (5-8) Nine 1-ft. sq. ca square yard divid		
759	Thermometer (2-6) Centigrade and Fa back. Large 7" >	hrenheit scale	
760	Dissectible Cubic Foot (5-10) Visually demonstr face area, volume board. Shipped f	\$4.00 cates concepts e, and capacity	. Made of card-
761		ays the conception of cubic i	
763	A 10" x 20" cork 20-inch measuring	g tape. Pupils each surface h	large pins and a
770	Cardboard Ruler (1-4) 12" ruler of gree scale on each edg		
770r	Demonstration Rulers (1-4) Set contains 2 on enlarged to 35 in scales. The 2nd	ne ft. sturdy c n. One ruler h	ardboard rulers
772	Playstore Scale (1-4) An accurate "play Dial graduated in		



STRAND 3

COMMERCIAL MATHEMATICAL AIDS (Continued)

	Description/		
Catalog Number	Grade Level	Cost	<u>Publisher</u>
773	Liquid Measure (3-5) Shows relationsh gallon. Made of	ip of gill, pi	· -
774	Dry Measure (3-5 Demonstrates vol peck, bushel, S	ume capacity o	Stationers Corp. f pint, quart,
776	One Cubic Yard (5-8) Shows expansion tough corrugated	involved in vo	
. 777	Metric Place Val Chart (5-10) Demonstrates mea and relationship	\$2.50 ning of meter,	-

MATHEMATICAL AIDS

MATHEMATICAL AID	DESCRIPTION	CATALOG NUMBER
What Time Is It?	11 x 13	M-2
Primary Measurement Board W/D	13 x 9-1/2	M-10
Sliding Thermometer	$4-1/2 \times 19$	M-11
Zipper Thermometer	7 x 16	M-39
Large Clock Face		M-54
Telling Time (Chart)	22 x 26	M - 57 (c)
Individual Table Scale	Circle	M-202
Upper Measurement Board W/D	10 x 13	M-224



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMS		
Adventure in Science: The Size of Things The Calendar: Our Record of Time Comparing: Getting Ready to Feasure Measurement Measuring in Astronomy: How Big, How Far Measuring Units: An Introduction Measuring with the Number Line The Metric System Mystery of Time The Story of Measuring Time: Hours, Minutes, Seconds Story of Weights and Measures Time for Clocks Time, Lines, and Events Volume and its Measurement Weights and Measures	4 - 8 K - 4 4 - 6 6 - 8 K - 8 6 - 8 6 - 8 8	F 204 F 1176 F 328 F 123 F 1311 F 1307 F 325 F 182 F 2009 F 107 F 149 F 1174 F 1080 F 273 F 1021
Advancing in Linear Measurements Advancing in Linear Measurements Advancing in Quantity Measurements Advancing in Quantity Measurements Busy Week - Calendar Calendar Tells When, The Calendar, Time, Temperature, The Calendar, Time, Temperature, The Can You Make Change Developing Units for Measurements Experiences With Measurements Experiences With the Thermometer and With Money Experiences With Time History of Our Calendar Wistory of Talling Time	4 - 8 4 - 8 4 - 8 4 - 8 1 - 2 3 - 6 2 - 4 1 - 3 3 - 6 2 - 6 2 - 4 2 - 4 3 - 8 3 - 8	FS 1072 FS 1403 FS 1073 FS 1404 FS 843 FS 1266 FS 1371 FS 2061 FS 2869 FS 453 FS 455 FS 456 FS 1003 FS 1001
History of Telling Time History of Weight and Volume Measures Hour and Half Hour - Part 1 - How to Tell Time Series How a Day Passes - Calendar How Long is it	3 - 8 3 - 8 1 - 3 1 - 2 3 - 6	FS 999 FS 1000 FS 816 FS 842 FS 1270



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS, continued		
How Much Does It Weigh	3 - 6	FS 1268
How Much Will It Hold	3 - 6	FS 1269
How We Tell Time	3 - 6	FS 1267
Introduction to Measurement	3 - 8	FS 3116
Introduction to Volume	4 - 8	FS 1884
Look at the Fourth Dimension, A	4 - 8	FS 3772
Making Change	1 - 4	FS 1015
Measuring Distance	5 - 8	FS 3509
Measuring How Long	K - 3	FS 2327
Measuring How Long	K - 3	FS 2500
Measuring How Long	K-4	FS 1721
Measuring How Much	K - 3	FS 2328
Measuring How Much	K - 3	FS 2501
Measuring Temperature, The	4 - 8	FS 2751
Measuring the Earth's Size and Shape	6 - 8	FS 1782
Measuring Time	4 - 6	FS 2735
Measuring Time By the Sun and the Stars	5 ~ 8	FS 2512
Measuring Volume and Density	5 - 8	FS 3511
Measurement	K - 2	FS 2857
Measurement	4 - 6	FS 3354
Measurement How and Why	1 - 3	FS 2863
Measurement - Precision	3 - 8	FS 1790
Meter Stick and Balance	5 - 8	FS 3768
Metric System	5 - 8	FS 2851
Metric System, The	6 - 8	FS 2866
Metric System of Measuring, The	5 - 8	FS 3508
Minutes, The - Part 2 How to Tell Time	The state of the same of the s	
Series	1 - 3	FS 817
Month - Calendar Series	1 - 3	FS 844
More Experiences With Measurements	2 - 4	FS 454
Pennies, Nickels, Dimes, and Quarters	1 - 3	FS 1361
Pennies, Nickels, Dimes, and Quarters	1 - 3	FS 2057
Sectors and Segments	7 - 8	FS 1954
Simple Measures	2 - 4	FS 1367
Story of Linear Measurement, The	3 - 8	FS 3340
Story of Money, The	3 - 8	FS 3342
Story of Time Measurement, The	3 - 8	FS 3341
Telling Time	1 - 2	FS 1360
Telling Time	1 - 2	FS 2056
Telling Time	4 - 6	FS 3355
Tic-Toc and Span Measurement	3 - 6	FS 3081
Time and Money	K - 2	FS 446



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS, continued		
Time and Money Time for Everything; How to Use Time Time Measurement - Calendar Using Graphs Using Mathematical Instruments Using Measures Using Measures Using the Metric System Volume Volume Volumes of Solids Weighing Things Year - Calendar Series Measurements are for a Purpose (Sound F.S.)	K - 2 1 - 3 1 - 4 6 - 8 3 - 8 4 - 8 6 - 8 7 - 8 3 - 6 1 - 8	FS 1562 FS 980 FS 1389 FS 1008 FS 1779 FS 1396 FS 2019 FS 1885 FS 826 FS 3252 FS 2345 FS 845 FS 61
STUDY PRINTS		
Metric System of Measurement, The		SP 365 (1)
RECORDS Telling Time	2 - 4	R-LP-300
TRANSPARENCIES		
Calendar, The Clock, The Clock, The Liquid Measure Measurement - Standard Units Metric System, The Tables of Measure Temperature (The Thermometer - C & F) Units of Time (Year, Month, Day)	K - 4 1 - 3 2 - 5 4 - 8	TR 229 (1) TR 23 (1) TR 228 (1) TR 227 (2) TR 371 (4) TR 191 (1) TR 189 (1) TR 193 (1) TR 230 (1)



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
EXHIBITS Clocks Let's Tell Time Make Believe Ruler Metric Scale	1 - 6 3 - 8 5 - 8	EX 75 (10) EX 86 EX 91 (1) EX 92 (1)
Realm of Measure; Asimov, Isaac What Size Is It?; Hatcher, Charles Wing On A Flea; Emberley, Ed.		510 As 511 Ha E



STRAND 4 Applications of Mathematics



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS		
Accelerated Motion Problems	7 - 8	FS 1787
Buying and Selling - Applications of		
Per Cent	6 - 8	FS 2047
Commission - Meaning and Application	6 - 8	FS 2048
Decimal Fractions and Reading Instruments	4 - 6	FS 3353
Federal Taxes	6 - 8	FS 2052
How a Computer Solves a Problem	7 - 8	FS 1955
Interest - Borrowing and Investing	6 - 8 7 - 8	FS 2049
Interpreting Biological Data		FS 1961
Introducing Economics: The Money We Earn	K - 3	FS 2253
Introducing Economics: What Our Taxes Do for Us	6 - 8	FS 2257
Many Birds With One Stone	6 - 8	FS 1614
Percent, Discount and Commission	6 - 8	FS 3871
Percentage and Using Money	4 - 6	FS 3356
State and Local Taxes	6 - 8	FS 2051
Stocks	6 - 8	FS 3872
·	0 0	10 3072
BOOKS		
Computers At Your Service; Kohn, Bernice		510.78 Ko
Computers! From Sand Table to Electronic		
Brain; Vorwald, Alan		510.78 Vo
Elementary Mathematics Of The Aton; Adler,		
Irving		
11 41112		539 Ad
Giant Golden Book Of Mathematics; Adler,		539 Ad
Giant Golden Book Of Mathematics; Adler, Irving		539 Ad 510 Ad
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The,		
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The, Highland, Ester Harris		
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The, Highland, Ester Harris Fun With Mathematics; Meyer, Jerome		510 Ad
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The, Highland, Ester Harris Fun With Mathematics; Meyer, Jerome Magic House Of Numbers; Adler, Irving		510 Ad 510 Hi 510 Me 510 Ad
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The, Highland, Ester Harris Fun With Mathematics; Meyer, Jerome Magic House Of Numbers; Adler, Irving Mathematics; Bergamini, David		510 Ad 510 Hi 510 Me 510 Ad 510 Be
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The, Highland, Ester Harris Fun With Mathematics; Meyer, Jerome Magic House Of Numbers; Adler, Irving Mathematics; Bergamini, David Mathematics; Smith, David Eugene		510 Ad 510 Hi 510 Me 510 Ad
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The, Highland, Ester Harris Fun With Mathematics; Meyer, Jerome Magic House Of Numbers; Adler, Irving Mathematics; Bergamini, David Mathematics; Smith, David Eugene Mathematics In Everyday Things; Vergara,		510 Ad 510 Hi 510 Me 510 Ad 510 Be 510 Sm
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The, Highland, Ester Harris Fun With Mathematics; Meyer, Jerome Magic House Of Numbers; Adler, Irving Mathematics; Bergamini, David Mathematics; Smith, David Eugene Mathematics In Everyday Things; Vergara, Williams C.		510 Ad 510 Hi 510 Me 510 Ad 510 Be
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The, Highland, Ester Harris Fun With Mathematics; Meyer, Jerome Magic House Of Numbers; Adler, Irving Mathematics; Bergamini, David Mathematics; Smith, David Eugene Mathematics In Everyday Things; Vergara, Williams C. Mathematics: The Story Of Numbers, Symbols,		510 Ad 510 Hi 510 Me 510 Ad 510 Be 510 Sm
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The, Highland, Ester Harris Fun With Mathematics; Meyer, Jerome Magic House Of Numbers; Adler, Irving Mathematics; Bergamini, David Mathematics; Smith, David Eugene Mathematics In Everyday Things; Vergara, Williams C. Mathematics: The Story Of Numbers, Symbols, and Space; Adler, Irving		510 Ad 510 Hi 510 Me 510 Ad 510 Be 510 Sm 510 Ve
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The, Highland, Ester Harris Fun With Mathematics; Meyer, Jerome Magic House Of Numbers; Adler, Irving Mathematics; Bergamini, David Mathematics; Smith, David Eugene Mathematics In Everyday Things; Vergara, Williams C. Mathematics: The Story Of Numbers, Symbols, and Space; Adler, Irving More New Ways In Math; Jonas, Arthur		510 Ad 510 Hi 510 Me 510 Ad 510 Be 510 Sm 510 Ve 510 Ad 510 Jo
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The, Highland, Ester Harris Fun With Mathematics; Meyer, Jerome Magic House Of Numbers; Adler, Irving Mathematics; Bergamini, David Mathematics; Smith, David Eugene Mathematics In Everyday Things; Vergara, Williams C. Mathematics: The Story Of Numbers, Symbols, and Space; Adler, Irving More New Ways In Math; Jonas, Arthur More Numbers, Fun And Facts; Friend, J.		510 Ad 510 Hi 510 Me 510 Ad 510 Be 510 Sm 510 Ve 510 Ad 510 Jo 510 Fr
Giant Golden Book Of Mathematics; Adler, Irving How and Why Wonder Book of Mathematics, The, Highland, Ester Harris Fun With Mathematics; Meyer, Jerome Magic House Of Numbers; Adler, Irving Mathematics; Bergamini, David Mathematics; Smith, David Eugene Mathematics In Everyday Things; Vergara, Williams C. Mathematics: The Story Of Numbers, Symbols, and Space; Adler, Irving More New Ways In Math; Jonas, Arthur		510 Ad 510 Hi 510 Me 510 Ad 510 Be 510 Sm 510 Ve 510 Ad 510 Jo



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS BOOKS, continued		
Numbers, Fun And Facts, Friend, J. Numbers Old and New; Adler, Irving Take A Number; Bendick, Jeanne Take A Number; O'Neill, Mary Wonders Of Math: Feravalo, Rocco	•	510 Fr 511 Ad 511 Be 510 On 510 Fe



STRAND 5 Statistics And Probability



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		•
FILMS		
Probability: An Introduction Estimating Answers, Interpreting Answers Estimating in Decimals - Multiplication Introduction to Probability Probability and Insurance Statistics Statistics: Mean, Median, Mode	4 - 8 5 - 8 4 - 8 6 - 8 6 - 8	F 327 FS 1600 FS 3102 FS 1793 FS 3870 FS 3868 FS 1006
BOOKS		•
Probability: The Science Of Chance; Razell, Arthur		519 Ra



CTDAND 6 Sets



MATHEMATICAL AIDS

MATHEMATICAL AID	DESCRIPTION	CATALOG NUMBER
Number Recognition Charts (1-10) W/P Perception Cards Cuisenair or Centimeter Rods Matching Numbers to Dots Wheel Clock - Before and After Attribute Blocks	11 x 14 12 x 6 Circle	M-5 M-23 M-27 M-29 M-63 M-73

TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS		
Doing More Work With Sets	2 - 6	FS 2867
Extension of Set and Number Ideas, The	1 - 3	FS 2400
Grouping Numbers	K - 3	FS 2324
Grouping Numbers	K - 3	FS 2497
Groups of 2 to 10	K - 2	FS 1558
Inequalities - Sets and Numbers	1 - 3	FS 2397
Introduction to Sets	K - 3	FS 2391
Introductions to Sets	1 - 4	FS 1801
Language of Sets	4 - 8	FS 1405
Meeting Sets	K - 2	FS 2855
Multiplication Facts - Sets	2 - 4	FS 1377
Multiplication Facts - Sets	2 - 4	FS 2039
One-to-One Correspondence Between Sets	K - 3	FS 2392
Putting Groups Together (Sums to 6)	K - 2	FS 1559
Putting Sets to Work	1 - 3	FS 2861
Set Description and the Use of Braces	1 - 3	FS 2395
Sets and Numbers	1 - 2	FS 832
Sets and Numbers in Mathematical Sentences	1 - 3	FS 2 3 96
Sets and Probability	6 - 8	FS 3869
Sets and Subsets	6 - 8	FS 1005
Sets by 1's, 2's, 5's, 10's	1 - 3	FS 1364
Sets by 2's, 3's, 4's, 5's	1 - 3	FS 1384
Sets 1 - 5	L - 2	FS 1357
Sets 1 - 5	1 - 2	FS 2053
Sets 5 - 9	1 - 2	FS 1358
Sets 5 - 9	$\frac{1}{1} - \frac{1}{2}$	FS 2054
Sets 9 - 12	1 - 2	FS 1359
Sets 9 - 12	$\frac{1}{1} - \frac{2}{2}$	FS 2055
Sets 11 - 15	1 - 3	FS 1362
Sets 16 - 20	1 - 3	FS 1363
Sets - Concepts, Symbols, Operation	3 - 6	FS 1376
Sets - Concepts, Symbols, Operation	3 - 6	FS 2038
Solution Sets	4 - 8	FS 2787
Union of Sets and Addition of Numbers	1 - 3	FS 2398
·		
TRANSPARENCIES		
Concept of Sets	к – 3	TR 362
Equivalent and Nonequivalent Sets	K - 3	TR 363
Equivalent Sets	-	TR 203 (1)
Equivalent Sets (Multiplication)		TR 207 (1)
Discovering Sets	K - 3	TR 361 (2)
		• •



TITLE	GRADE LEVE L	CATALOG NUMBER
MATHEMATICS	•	·
TRANSPARENCIES, continued		
Non-Equivalent Sets Properties of Sets Set, A Sets and Subsets Venn Diagrams Zero and Empty Sets	K - 4 K - 4 1 - 4 1 - 4 K - 3	TR 234 (1) TR 214 (1) TR 236 (1) TR 235 (3) TR 233 (1) TR 364 (4)
BOOKS		
Counting Carnival; Ziner, Feenie Sets; Adler, Irving		511 Z 512 A



STRAND 7 Functions and Graphs

MATHEMATICAL AIDS

MATHEMATICAL AID

DESCRIPTION

CATALOG NUMBER

M-246

Function Machine

ERIC Full text Provided by ERIC

-36-

4

TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMS		
Graphs: Understanding and Using Them Introducing Graphs The Language of Graphs Ratio and Proportion in Mathematics	4 - 8 4 - 8 4 - 8 6 - 8	F 371 F 1082 F 1247 F 270
FILMSTRIPS		
Graph of the Cosine Function Graphs Graphs-Pictographs, Bar, Line, Number Pairs, Maps Graphs-Pictographs, Bar, Line, Number Pairs, Maps Order Properties Order Properties Order Relations Among Fractional Numbers Ordering Sets and Ordering Numbers Scales, Scale Drawing, Maps, and Tables Scientific Measurement	7 - 8 6 - 8 4 - 8 4 - 8 6 - 8 K - 3 4 - 6 7 - 8	FS 1913 FS 3865 FS 1392 FS 2020 FS 1413 FS 1608 FS 2393 FS 3360 FS 812
TRANSPARENCIES		
Bar Graph, The (Average Life Span of Birds) Frequency Distribution Table and Line Graph Map Problems Graphing (½" Coordinates) Grid Base Grid Base With Coordinates	4 - 8 1 - 8 1 - 8	TR 204 (1) TR 192 (1) TR 201 (1) TR 222 (1) TR 355 (1) TR 354 (1)



STRAND 8 Logical Thinking



MATHEMATICAL AIDS

MATHEMATICAL AID	DESCRIPTION	CATALOG NUMBER
Tower Game	n	M-217
Kalaha Board		M-221
Peg Exchange		M-222
Weeden Triengle Hi-O (Pegg)		M-237



STRAND 9 Problem Solving



TITLE	GRADE LEVEL	CATALOG NUMBER
MATHEMATICS		
FILMSTRIPS		
Introduction to Problem Solving Meeting Problems Problems in Percentage Solving Problems Solving Problems Solving Problems Solving Problems Solving Problems Solving Problems - Fractional Numbers Solving Problems Solving Problems Solving Problems - Multiplication and Division Thinking About Problems	1 - 2 K - 2 5 - 8 3 - 6 1 - 3 1 - 3 3 - 4 5 - 6 4 - 8 6 - 8 2 - 5 2 - 6	FS 831 FS 2858 FS 2969 FS 1591 FS 2864 FS 3349 FS 823 FS 840 FS 3399 FS 1009 FS 3383 FS 2870
BOOKS		
The New Mathematics; Adler, Irving		510 Ad



APPENDIX



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Palo Alto, California 94302

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Los Angeles, California 90013

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CUISENAIRE CO. OF AMERICA, INC. 9 Elm Ave. Mount Vernon, New York 10550

HOUGHTON-MIFFLIN CO. 777 California Ave. Palo Alto, California 94304

