The selected bibliography provides information on approximately 500 math materials appropriate for students from preschool through high school. Emphasized are manipulative aids, kits, and prepackaged programs. Materials are listed alphabetically by publisher within the following categories: activity cards, audio aids, charts, diagnostic aids, duplicating masters, film media, games and puzzles, kits and prepackaged programs, manipulatives, supplemental texts and readers, teacher references, teaching machines, transparencies and overhead visuals, and workbooks or worksheets. A typical reference includes name of material, publisher and publisher's address, order number (when available), cost (when available), appropriate grade levels and a brief description of the material. Also noted is whether the material requires little or no reading skill, is essentially remedial, is programmed, or is suitable for enrichment purposes. (DB)
AN ANNOTATED BIBLIOGRAPHY OF MATH MATERIALS

by

Mary Ella Zelenik

August, 1973

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

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This project was supported in part by a grant from the Bureau of Education for
the Handicapped, U.S. Office of Education which is gratefully acknowledged.
The following bibliography is a selected cross-section of math materials available to students in preschool on up to high school. Representative items were chosen for each of the categories listed on the next page with special emphasis placed on manipulative aids, kits and prepackaged programs.

The information has been organized into categories of media format. Within each category the materials listed have been arranged in alphabetical order by publisher. A typical reference would include the following information: name of material, publisher and publisher's address, order number (when available), cost (when available), and a statement describing the material. Appropriate grade levels are listed along the right-hand side of the page next to each reference. The subject matter covered by the resource is underlined. In addition the following notation are included with the grade level notation if appropriate to that material:

(NR) little or no reading skills required
(Re) materials essentially remedial in nature
(P) programmed materials
(S) supplemental for more advanced students, or enrichment materials

SAMPLE:

<table>
<thead>
<tr>
<th>Name of material</th>
<th>Grade level</th>
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<tbody>
<tr>
<td>Publisher</td>
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<tr>
<td>Publisher's address</td>
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<td>Description</td>
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CATEGORIES OF MEDIA FORMAT:

Activity Cards: flashcards, sets of math problems, and math activities which give instructions for simple math experiments in such areas as measurement, volume, etc.

Audio Aids (cassettes and records): pre-recorded lessons and games

Charts

Diagnostic Aids: for determining skill levels

Duplicating Masters

Film Media (films, filmloops and filmstrips)

Games, Puzzles, and Activities
Kits and Pre-packaged Programs: math skills, individual math units, and complete programs; some with manipulative and visual aids, worksheets, etc.

Manipulatives

Supplemental Texts and Readers

Teacher References: for information concerning developing math labs and experiments, and providing individualized instruction

Teaching Machines

Transparencies and Overhead Visuals: those that are sold as complete programs or sets are listed individually, in addition, a number of companies which publish transparencies have been listed.

Workbooks and Worksheets
1. ACTIVITY CARDS:

Self-Instructional Basic Mathematics
   Electronic Futures, Inc.
   57 Dodge Avenue
   North Haven, Connecticut 06473
   SIMB

Audio flashcards are structured programs presented in a multi-sensory format for self-instructional or teacher-directed learning activity. This program encompasses the full complement of skills, concepts and abstract principles encountered in the basic mathematics curriculum.

Children Cards Box-Early Learning System
   EDL/McGraw Hill
   California Branch Office
   5610 Hollywood Boulevard
   Hollywood, California 90028
   312076
   $15.00

These cards display red and blue illustrations of variously proportioned boys and girls: tall and short, fat and thin, etc. They are used in sequences to identify, describe, and sort attributes of color, size, shape, and sex.

Geoboard Kit
   Houghton Mifflin
   777 California Avenue
   Palo Alto, California 94304
   1-14482
   $3.60

Each kit contains 7"x7" geoboard, assorted rubber bands, and 42 student activity cards, a Teacher's Guide and Answer Book is included. The activity cards guide the students through a series of exploratory activities in which they are led to discover mathematical relationships on their own.

Mathematics Spinner Kit
   Houghton Mifflin
   777 California Avenue
   Palo Alto, California 94304
   1-14473
   $2.85

The Spinner Kit includes a sturdy spinner and 22 Activity Cards containing student activities relating to fractions, geometry, addition, and probability.

Student Activity Cards for Cuisenaire Rods
   Cuisenaire Company of America, Inc.
   12 Church Street
   New Rochelle, New York 10805

1st-5th grade (NR)
Little reading skill is required for children to use the cards with Cuisenaire rods either to supplement exercises in their present mathematics program or as part of their lab materials. Simple pattern work to acquaint children with the rods is followed by games and other problems introducing various math concepts.

**Individualized Instruction in Mathematics: Activity Cards**
- Houghton Mifflin
  - 4th-12th grade
  - Consists of a set of individualized activity cards, each set consists of 160 cards separated into 8 sections. 80 different duplicate activity cards. The cards emphasize basic operations, a teachers guide accompanies the set.

**Retriev-o-math**
- Midwest Publications Company, Inc.
  - 7th-12th grade
  - A mathematical enrichment and motivational device. Many mathematical principles are illustrated. It consists of a series of file cards which present challenging math problems. The table of contents includes: algebra, arithmetic, geometry, logic, number theory, and proof.

**Math Mates**
  - K-8th grade
  - Math Mates are sets of durable activity cards, illustrated in color and black and white, and designed to be used with the following math manipulatives: Math Balance, Attribute Blocks, Abacus, 100 Number Board, Geostrips, Clinometer, primary shapes, and mosaic shapes. Each set contains 10 cards with each card listing a specific objective or goal and providing numerous motivational activities.

**Math Set Geometry**
- Scott, Foresman and Company
  - 3rd-8th grade
  - Math Set Geometry
Beginning with the familiar world of three-dimensional objects, the pupil first explores the topic of space shapes. More abstract ideas lead him to plane figures, lines and angles, symmetry and co-ordinates. The sections on fractions and area, perimeter and volume remind him of the close relationship between geometry and arithmetic.

Math in Measurement

- Scott, Foresman and Company
  1900 East Lake Avenue
  Glenview, Illinois 60025
  13548
  $15.00

Designed to develop ideas, skills, and relationships in measurement and graphing through a workshop approach. Composed of five topics related to measurement: graphing, measurement of length, area, volume, and weight. The cards for each topic are numbered to indicate sequence and further divided and color coded into four levels of difficulty. Teachers manual plus 268 cards per set.

ETA Modern Math: Key-Lab

- ETA
  159 West Kenzie Street
  Chicago, Illinois 60610
  1600
  $54.95

A self-corrective teaching and designed to supplement existing mathematics programs. Has problem cards notched to receive only the correct answer, 1,160 problems on 110 cards. Covers numbers, relations, functions and mapping, subtraction, systems of tens and ones, mathematical sentences, operations, number lines, addition, multiplication, sets and vectors. Also 48 spirit masters.

Math Applications Kit

- Science Research Associates, Inc.
  259 East Erie Street
  Chicago, Illinois 60611
  3-545
  $58.85

Students investigate problems using elementary math. There are 270 activity cards that require students to collect and use data to derive conclusions. A supplement to any basal math program and an outstanding addition to math laboratories or learning centers. Components: 270 activity cards, 10 reference cards, a student handbook, a Teacher's Manual and an almanac.

II. AUDIO-AIDS

Fountain Valley Teacher Support System in Mathematics

  20800 Beach Boulevard
  Huntington Beach, California 92648
Write for price and order number

The program is a comprehensive, prescriptive teacher support system in mathematics. The tests, covering 785 behavioral objectives, are self-administered on audio tape in 8 to 20 minute segments. They provide immediate knowledge of results, meaningful diagnostic patterns and identify specific deficiencies. Prescriptions are cross-indexed to virtually every major mathematics text and audio-visual program in the country for grades K-8. Includes Teacher's Manual.

**Telling Time**

- Encyclopedi Britannica Educational Corporation 1st-3rd grade
  425 North Michigan Avenue
  Chicago, Illinois 60611
  6610
  $89.00

This program consists of four 15-minute lessons that teach a child the necessary key concepts and skills for telling time. The materials are a complete teaching unit, utilizing audio instruction and manipulative materials. Includes: 1 filmstrip, a cassette, pupil worksheets, teacher/pupil book, and a model clock face.

**Programmed Mathematics Cassettes**

- Mafex Associates, Inc. 1st-3rd grade (P)
  111 Baron Avenue
  Box 519
  Johnstown, Pennsylvania 15907
  110900 math readiness
  111000 math grade I
  111100 math grade II
  111200 math grade III
  111300 math grade IV
  $60.00 each

A teacher-tested sequential series of programmed math taped lessons that can be administered with a minimum of preparation time - It can be used in a remedial math program by simply dropping down to the appropriate achievement level of a pupil. A pupil worksheet accompanies each lesson.

**Discovering Number Facts**

- Learning Media Corporation K-2nd grade
  231 North 63rd Street
  Philadelphia, Pennsylvania 19139
  $36.80

This series of 8 cassettes introduces numbers and numerals to children, simple tunes and narration are mixed to make these a delightful and informative learning experience. Each cassette is 6 minutes long and is useful for both classroom and individual study.

**Math Mastery Tapes**

- Learning Research Associates, Inc. 2nd-8th grade
Each unit consists of lessons within a general area of mathematics, designed to complement traditional and modern approaches. Beginning lessons deal with simple skills and concepts that are further developed in each successive lesson. The student works independently listening to tapes, recording and checking his answers in the Work-Study Guides.

Learning Systems: Mathematics
Electronic Futures Inc.
57 Dodge Avenue
North Haven, Connecticut 06473
C-1000 can order individual kits for each grade level
R-1000
$795.00

The minisystem is primarily for use by the individual student under the guidance of the teacher. Each minisystem consists of an audio tape containing an instructional sequence and an activity sheet. The opportunities for student response to questions and problems posed on the tape is designed to teach the concepts and operations basic to the school mathematics program.

Modern School Mathematics
Houghton Mifflin
777 California Avenue
Palo Alto, California 94304
1-5101 (primary)
1-5151 (intermediate)
$240.00, $285.00

For teaching review, 10-20 minute cassettes providing individualized units in mathematics can be used successfully with any elementary modern math program. 32 lessons in primary and 40 in the intermediate. Accompanying each lesson is a 4-page student worksheet. Each section also includes Teacher's Guide with notes for each lesson. Behavioral objective, follow-up activities and back sound material.

Practice Tapes for Modern School Mathematics
Mathematics Algebra I
77 7 California Avenue
Palo Alto, California 94303
$114.00

A complete package contains 27 audio-tape cassettes, (2 lessons-per. cassette), accompanied by 2 lesson booklets of 110 pages each. Each of the 54 lessons covers a specific topic in the textbook and provides an explanation of the topic. The listening time for the average tape is 8-12 minutes.
Fractions and Fractional Numbers/a Self Instructional Multi-Sensory Approach

3rd-6th grade

Special Education Materials, Inc.
484 South Broadway
Yonkers, New York 10705
SE 2210
$60.00

A multi-media, self instructional program which combines auditory, visual, and kinesthetic experiences to reinforce the concept of fractions and fractional numbers. Program consists of 10 pre-recorded lessons on cassette tapes; fractions discs to represent subject fractions, plastic trays to hold fraction pieces, and ten packs of 72 response sheets for each item.

Primary Math Skills Improvement Program

1st-3rd grade

Special Education Materials, Inc.
484 South Broadway
Yonkers, New York 10705
SE 2212
$339.00

This program builds pupil proficiency in math. The series includes 40 pre-recorded tapes, 30 student response booklets for each tape, 3 copies of the Teacher's Manual and a placement test kit. A variety of highly motivating individualized exercises reinforce and extend fundamental math concepts.

Computapes

4th-8th grade

Science Research Associates, Inc.
259 East Erie Street
Chicago, Illinois 60611
3-12000
$380.00 (can be ordered individually)

This supplementary program consists of a series of cassette tapes for practice in basic math skills. The 56 cassettes contain 112 lessons, each 10 to 20 minutes long. Tapes are in six modules: addition and subtraction A and B, Multiplication and Division A and B, Fractions, Decimals, and Percents. Tapes are organized by skill area rather than grade level. Worksheets for every lesson. All Available in spirit masters or in perforated workbooks.

Mathtapes TM Audiotape Program

7th-9th grade

Science Research Associates, Inc.
259 East Erie Street
Chicago, Illinois 60611
21-10300 reel format
21-10370 cassette format
$486.00 reel
555.65 cassette
The program is divided into eight units to help introduce, reinforce, and provide practice in math. A program for average or below average students. The first unit provides remedial practice and review of basic arithmetic. Other units are on mathematical systems, concepts, and operations of algebra, ratios, and percents, number systems, geometry, and problem solving. Correlated to 12 major lower-track and middle-track text books.

Math Made Meaningful
- Stanley Bowmar Company, Inc.
  Valhalla, New York 10595
- 82.1005 (k-and), 82.1017 (2-3) 82.1040 (5-6)
- $4.98 each

Vo! I-Games and activities which introduce basic number concepts
Vol II-games and puzzles teach fundamental arithmetic concepts
Vol III-Activities are presented which review the basic arithmetic concepts of addition and subtraction. Concentration of development of multiplication and division facts.

III. CHARTS

Elementary Mathematics Charts
- Nystrom
  3333 Elston Avenue
  Chicago, Illinois 60618
- EM-80
- $95.00

Size 18 1/2 x 24 inches, a set of 80 colorful charts with bright, humorous pictures. Some examples include: 4 money charts, 6 time charts; 13 number charts, on set theory, theory of numbers, and order; geometry; measuring; graphs; number line.

IV. DIAGNOSTIC AIDS

Pre-math (Part of Apell Early Learning Kit)
- Edcodyne Corporation
  Suite 935
  1 City Boulevard West
  Orange, California 92668
- AP701 (entire kit)
- $330.00

It diagnoses skill levels based on specific measurable performance objectives and suggests possible remediation. Pre-math assesses skill in discrimination of attributes (size) and number concepts. Includes: Student Booklets, Teacher's Editions, Student Response Forms, Computer Processing Index, Student Reports.
The program is a comprehensive, prescriptive teacher support system in mathematics. The tests, covering 785 behavioral objectives, are self-administered on audio tape in 8 to 20 minute segments. They provide immediate knowledge of results, meaningful diagnostic patterns and identify specific deficiencies. Prescriptions are cross-indexed to virtually every major mathematics text and audio-visual program in the country for grades K-8. Includes Teacher's Manual.

Diagnosis: An Instructional Aid - Mathematics
Science Research Associates, Inc.
259 East Erie Street
Chicago, Illinois 60611
Write for prices

This instructional aid is for pinpointing mastery of concepts and skills covered by major main programs. It utilizes criterion-referenced diagnostic math tests called probes. The back of each probe lists learning objectives for questions students miss. Components: consumable copies of probes, consumable copies of the survey test, a prescription guide, class progress wall chart, and Teacher's Guide.

V. DUPLICATING MATERIALS

M.W. Sullivan Duplicating Masters, 1,2
Behavioral Research Laboratories
Box 577
Palo Alto, California 94302
- 6375 (books 1-4)
- 0376 (books 5-7)
- $39.95 (books 1-4)
- 39.95 (books 5-7)

Two books of duplicating masters, each containing 200 master worksheets correlated with M.W. Sullivan Mathbooks.

Playing With Numbers
Continental Press, Inc.
2085 East Foothill Boulevard
Pasadena, California 91109.

Twenty four plates with free teacher's guide.

VI. FILM MEDIA (FILMS, FILMLOOPS, FILMSTRIPS)

The World of Whole Numbers
BFA Educational Media
2211 Michigan Avenue  
Santa Monica, California 90404
   393000
   $8.00 each filmstrip
   $40.00 series of 5

Titles: The Missing Addend, Bowler's Mathematics, Sporting Mathematics, The Missing Factor, The Doughnut Stand. Through participation in a series of bizarre baseball, football, and bowling events as well as through marketing activity, the student reviews number facts and practices basic number operations.

Exploring New Math  
   Learning Media Corporation  
   231 North 63rd Street  
   Philadelphia, Pennsylvania 19139  
   $78.00

The objective of this series of filmstrips is to introduce and teach the principles of new math. Each filmstrip introduces a new concept while repetition reinforces skills and principles already learned, building a strong foundation of working with numbers, problems and principles.

Learning Readiness in Math  
   Learning Media Corporation  
   231 North 63rd Street  
   Philadelphia, Pennsylvania 19139  
   $50.00

This series of four sound filmstrips is directed at preparing the child for an understanding of number concepts. Counting and an understanding of the meaning of numbers are presented in an amusing and fun-filled light. Titles include: Discovering Numbers, I Like to Count, We Count Many Things, Using Numbers and Letters.

Arithmetic Series  
   Webster/McGraw Hill  
   8171 Redwood Highway  
   Novato, California 94947  
   Write for price list, there are 3 primary sets and 3 elementary sets

The arithmetic series will be a major assistance in clarifying some of the major whole-number concepts commonly covered in the elementary school. The series is designed as a valuable complement to previous instruction and is not intended to serve as a means of introducing the concepts involved. The filmstrips deal with elementary whole number concepts, properties, and operations and are designed for review, summary, or remedial work.

Modern Geometry Series  
   Webster/McGraw Hill  
   8171 Redwood Highway  
   Novato, California 94947
This series of filmstrips introduces, develops and summarizes some of the basic and most important concepts of modern geometry. Classical geometric proofs are given, but at the same time students are encouraged to participate in class discussion and to take an active part in solving problems and in finding proofs.

Modern Algebra Series
Webster/McGraw Hill
8171 Redwood Highway
Novato, California 94947
619220
$49.00

Six color filmstrips help visually clarify some of the more difficult topics in high school Algebra. Incorporating new content and new approaches to the teaching of this subject, this series is designed to meet the challenge of today's modern mathematics programs.

Macmillan Elementary Math Film Loops
Macmillan Publishing Company, Inc.
200 F Brown Street
Riverside, New Jersey 08075
Write for order numbers and prices

A complete set of single-concept filmloops in mathematics--40 in all. The films are compatible with any new mathematics program. Each filmloop is accompanied by a guide sheet for the teacher which includes synopsis of film, related filmloops, ideas for use of the film, exercise and follow-up activities.

Films on Mathematics for the Elementary School-First Level Series
Review Educational Films, Inc.
440 Conil Way
Menlo Park, California 94025
$1,250.00 for 10 films

The series of ten 16mm films introduces math experiences without requiring mastery, and is largely concerned with size, shape and number of objects. Sample titles include: What is 1, 2, 3, 4 and 5?, Addition Facts 1-10, Subtraction of 1-5, What is 6, 7, 8, 9? What is 10?, More About 10, Numbers 11-19.

Geometry and Trigonometry
Popular Science Audio Visuals, Inc.
Times Mirror
5235 Ravenswood Avenue
Chicago, Illinois 60640
C-202 (8 filmstrips)
$50.00 ($6.75 each)
These filmstrips draw together the facts students have been accumulating and add meaning by explaining the reasons behind them. They are useful in review and in presenting new or difficult topics. Titles include: Applied Geometry, Complementary and Supplementary Angles, Congruence, Right Angles in 3-Dimensional Figures, Tangents to Circles, The General Angle and Indirect Measurement.

Algebra and Related Topics

• Popular Science Audio Visuals, Inc.
  Times Mirror
  5235 Ravenswood Avenue
  Chicago, Illinois 60640
  C-701 (10 filmstrips)
  $62.50 ($6.75 each)

These filmstrips draw together the facts students have been accumulating and add meaning by explaining the reasons behind them. They are useful in review and in presenting new or difficult topics. Titles include: Introduction to Complex Numbers, Finding Equations of Lines, Mathematics of Motion, What Numbers Properties Signify, Permutations Solving Radical Equations.

Fundamentals of Modern Mathematics

• Jam Handy School Service
  2781 East Grand Boulevard
  Detroit, Michigan 48211
  3150
  $69.95 ($7.50 each)

Ten filmstrips with operations and principles visually demonstrated with the help of on-screen assistance. Each filmstrip is designed to help students discover mathematical ideas themselves through guided discussion and questions. Titles include: Sets and Set Operations, The Whole Numbers, The Integers, The Rational Numbers, Relations, Functions, Finite Mathematical Systems, Shapes, Areas.

Introduction to Fractions

• Jam Handy School Service
  2781 East Grand Boulevard
  Detroit, Michigan 48211
  1030
  $26.25 ($5.75 each)

These 5 filmstrips present the beginning concepts of fractions. The treatment of the subject matter is designed especially for the grades where fractions are commonly introduced. Titles include: Fractional Parts of a Whole 1/2, 1/3, 1/4; Fractional Parts of Groups 1/2, 1/3, 1/4; Fractional Parts of a Whole and Groups 1/5, 1/6, 1/8; Non-unit Fractions of a Whole and Groups, Comparing Fractions.

Using Sets and Numbers

• Jam Handy School Service
  2781 East Grand Boulevard
  Detroit, Michigan 48211
  1000
  $57.55 ($6.25 each)
Ten color filmstrips to provide students with important insights into fundamental set concepts, offer students practice in using set concepts as an approach to mathematical success, show students the relationship between sets and numbers, and lay a foundation for advanced math study. Titles include: Introduction to Sets, One-To-One Correspondence, Ordering Sets and Numbers, Basic Subsets and the Empty Set, Set Description and the Use of Braces.

Mathematics for Primary Grades
Jam Handy School Service
2781 East Grand Boulevard
Detroit, Michigan 48211
n020
$43.75 ($5.95 each)


Primary Mathematics 1: Geometry
QED Productions
P. O. Box 1603
Burbank, California 91505
$95.00 filmstrip and records (33 1/3 rpm)
$109.50 filmstrips and cassettes

The packet includes 6 filmstrips, 6 33 1/3 rpm records and 6 cassettes, Teacher's Manual, and student activity book (20 spirit duplicator masters). Two delightful characters, Pam and Freedy, introduce primary students to the fun-filled world of geometry through discovery. The series is illustrated in a fresh, graphic art style. The series is constructed to stimulate the young viewer to immediate verbal and tactile response through a progression of questions and problems which can be answered or solved within the filmstrips time span.

Modern Mathematics
Stanley Bowmar Corporation, Inc.
Valhalla, New York 10595
9422
$45.00 set of 6 filmstrips

Designed to introduce and develop some of the basic concepts of set theory as they relate to secondary school mathematics.

Mathematical Insights
BFA Educational Media
2211 Michigan Avenue
Santa Monica, California 90404
3H2000
$8.00 each filmstrip
$80.00 series of 10

Includes decimals, percents, ratios, fractions. Interesting stories about everyday activities help to learn the concepts about fractions.
What is a Fraction?

3rd-8th grade

BFA Educational Media
2211 Michigan Avenue
Santa Monica, California 90404

• 3L800 4 filmstrips, 2 records
• 3L900 2 cassettes
• $42.00
• $46.00

Increases the viewer's understanding of fractions and their properties. Discovery and understanding, rather than rate memorization, is the objective. Titles include: Numerators and Denominators, Equivalent Fractions, Finding Common Denominators, Improper Fractions and Mixed Numbers.

Math Manipulatives Series

1st-5th grade

BFA Educational Media
2211 Michigan Avenue
Santa Monica, California 90404

• $20.00 each

Series of 10. Encourages the young student to explore the world of mathematics through use of manipulatives. Titles include: Properties of Shapes, One-to-One Correspondence, Shapes and Positions, Sets and Sizes, Union of Sets, Addition by Grouping-Association, Subtraction as Set Separation, Addition by Grouping.

Primary Mathematics

1st-3rd grade

Denoyer-Geppert Audio Visuals
6112 South Candon Avenue
Los Angeles, California 90056

Write for specific titles, numbers, and costs

Filmstrips on measurement, time and dividing into parts.

Modern Arithmetic

1st-6th grade

Stanley Bowmar Company, Inc.
Valhalla, New York 10595

Write for order numbers and costs

Four sets of filmstrips introduces basic math concepts appropriate to each grade level.

Arithmetic for Beginners

preschool-K

Stanley Bowmar Company, Inc.
Valhalla, New York 10595

9958X

$866.00

Primary set of 11 filmstrips (may be ordered separately) designed as readiness material. Series I-Number Readiness, Series II-Number Concepts.

Modern School Mathematics: Single Concept Filmloops

1st-3rd grade

Houghton Mifflin
777 California Avenue
Palo Alto, California 94304

• 1-15000 technical cartridge
• 1-15001 kodak cartridge
$445.50

Full-color, animated filmloops. Present and develop basic mathematical concepts. The set can be used to introduce and review basic concepts.

Seeing the Use of Numbers  
Eye-Gate House  
4848 McConnell Avenue  
Los Angeles, California 90066  
Write for order numbers and prices

Eight sets of filmstrips covering: Counting, Number Relations, Addition, Subtraction, Multiplication, Division and Fractions--Primary.  
Uneven Division, Fractions and Measures, Extended Mathematical Concepts--Elementary.  
Square Root, Geometry, Beginning Algebra--Elementary and Intermediate.

Fables of Numbers and Shapes  
Eye-Gate House  
4848 McConnell Avenue  
Los Angeles, California 90066  
TF243  
$55.50

The use of a story book form and imaginative characters provides teachers with a self-explanatory complement to most math curricula. This set practices the theory of fun teach. The emphasis is on getting the student interested in playing with numbers and shapes to prepare his mind for working with them later.

Work and Play with Numbers  
Eye-Gate House  
4848 McConnell Avenue  
Los Angeles, California 90066  
F27  
$48.50

The major objective of these filmstrips is to give the child the main number concepts in the initial study of arithmetic. The child sees, hears, reads and talks about numbers. Complete set of 9 captioned color filmstrips with Teacher's Manual.

Solving Word Problems in Mathematics  
Eye-Gate House  
4848 McConnell Avenue  
Los Angeles, California 90066  
TX 329  
$52.00

This set (6 color filmstrips and 3 cassettes) teaches the student the skills of reading and understanding the problem, writing the number sentence, and solving the number sentence and to translate his solution into a verbal form. Compatible with current modern mathematics texts and programs.
Plane Geometry  
Eye-Gate House  
4848 McConnell Avenue  
Los Angeles, California 90066  
F5-2  
$57.00  
To help teach the more difficult geometric concepts. Not planned as an initial presentation, the concepts lead the student further along after the initial introduction to geometry, forming an excellent foundation for analytical geometry and differential calculus.

Mathematics in Action  
Eye-Gate House  
4848 McConnell Avenue  
Los Angeles, California 90066  
F5-1  
$51.00  
Adaptable to both modern and traditional curricula, these filmstrips have been designed to serve as an aid in the presentation of certain pre-algebra mathematical topics. Every effort has been made to make the material sequential and logical without being programmed. Complete set of 8 captioned color filmstrips and Teacher's Manual.

Topics in Algebra  
Eye-Gate House  
4848 McConnell Avenue  
Los Angeles, California 90066  
TX328  
$58.00  
Programmed presentation will enable the student to discover the principles that underlie key algebraic manipulations. Every topic is developed as a progression that leads to the students non proof of the validity of each method. Follow-up drills are included in the Teacher's Guide. A complete set of 6 color filmstrips with 3 cassettes.

Arithmetic for Beginners Series II  
Encyclopedia Britannica Educational Corporation  
425 North Michigan Avenue  
Chicago, Illinois 60611  
9020  
$30.00  
$6.00 each  
Series II presents varied opportunities for children of primary grades to achieve understanding and proficiency in the handling of number concepts such as time, size, quantity, and simple addition and subtraction. Suggestions for supplement activities are included. Five filmstrips: The Tea Park, Duck Eggs, The Circus, The Storekeepers, Roy's Number Friends.

Exploring New Math  
K-5th grade  
Troll Associates
A complete unit of 13 filmstrips to introduce and teach children the principles of new math. Entertaining lively illustrations help children discover basic concepts and master skills. Each filmstrip develops a concept step by step. Titles include: Introduction to Sets, Member of Sets, Mathematical Relationships, Counting Numbers and Whole Numbers, Addition, Subtraction, More Sets, Number Line, Addition and Subtraction, Fractions, Place Value, Multiplication, and Division.

New Mathematics
- Educational Projections Corporation
  P. O. Box 1187
  Jackson, Mississippi 33205
  $6.00 individual filmstrips

A series of 36 full color filmstrip lessons for grades 1, 2, and 3 covering the basic principles of new math.

Modern Math Multimedia Program
- School Produce Division
  David C. Cook Publishing Company
  Elgin, Illinois 60120

Combines color filmstrips with cassette tapes to help first-graders learn basic concepts of modern math. Includes: Cassette player, 5 tape cassettes (each with 2 lessons), 10 color filmstrips, and a Teacher's Guide.

Basic Mathematics
- Enrich
  3437 Alma
  Palo Alto, California 94306
  E00-M
  $49.95

Twenty filmloop cartridges covering sets, number and numeration, addition and subtraction, multiplication, division and rational numbers, fractions-understanding primes and divisibility, addition and subtraction and multiplication and division, preparation for geometry.

Basic Arithmetic
- Enrich
  3437 Alma
  Palo Alto, California 94306
  E00-A
  $37.50

Fifteen filmloop cartridges designed to provide drill and review in addition, subtraction and multiplication of whole numbers. Filmloops are in color.

Multi-media Math Program
- 1st-3rd grade
19

Educational Materials Company
1553 South Victory Boulevard
Glendale, California 91201
$35.00

Low level skill development for the under achieving student. Uses colorful filmstrips and narrated cassettes with sound effects. Addition and multiplication programs are highly sequential allowing the teacher the opportunity to individualize the basic math programs. Also includes pre and posttests and teacher's manual.

Kenner on Modern Mathematics
Stanley Bowmar Company, Inc.
Valhalla, New York 10595
Write for order number and costs.

A new series by Kenners of Southern Illinois University. These sets can be used in the 1st grade or when you wish to introduce the concepts covered. Gerry Graph, a whimsical animal learns, demonstrates and sometimes fumbles in a charming narrative. Total set contains 36 filmstrips.

VII GAMES, PUZZLES, AND ACTIVITIES

Math Matrix Games
Appleton Century Crofts-Educational Division
440 Park Avenue South
New York, New York 10016
Order No. T 37770-8
$58.00

Provides controlled game situations in which children learn to listen, to verbalize, to solve problems, and give and follow directions. Teaches math concepts of counting 1-10, 15-0; matching number 1-10; order and sequence; introductory addition and subtraction. Magnetic display frame, 20 colorful illustrated game boards in convenient carrying case, 16 magnetic numerals and shapes, Teacher's Manual.

Sullivan Math Games
Behavioral Research Laboratories
Box 577
Palo Alto, California 94302
2675
$49.95

1. Hainstock Blocks-manipulative device teach number and numeral, digits
2. Arithmetic-subtraction practice
3. Number Place Strips-to read numbers, digits to 1,000, place value and 0
4. Abacus
5. Mathematical Checkers
6. BRL Equation Cards
7. Sullivan Math Cards
8. Number Sentences Game
9. Line Designs

Ordinal/Cardinal Puzzles

1st grade
Developmental Learning Materials
7440 North Natchez Avenue
Niles, Illinois 60648
.
204
.
$4.00

Set of 11 puzzles, each divided into three pieces. The puzzle placement is self-instructive. For example, a puzzle piece related to 5 can fit only the other pieces of the 5 puzzle. However, the cut of the puzzle is not so obvious that the student can rely on that alone to match the puzzle. 7½ x 3½" puzzles, mounted on superboard and boxed with instructions.

Plus for Mathematics
.
Educational Service, Inc.
P. O. Box 219
Stevensville, Michigan 49217
.
$4.60

Each classroom tested activity includes a description of all necessary materials and preparations, and an example of exactly how the activity may be presented.

Mathfacts Games
.
ESSCO Educational Supply Company, Inc.
2823-25 East Gage Avenue
Huntington Park, California 90255
.
7642
.
$15.00

A chest of 5 self-instructonal, self checking games with the learning of basic addition and subtraction. Each game covers a different set of facts and is graded in levels of increasing complexity. Designed to provide small group drill or may be played solitaire.

Modern Math Games, Activities and Puzzles
.
Fearon Publishers
Lear Siegler, Inc--Education Division
6 Davis Drive
Belmont, California 94002
.
$2.00

All materials can be easily adapted to any level of mathematical maturity. Games, activities and puzzles for enrichment, reinforcement and seatwork. On perforated paper so that spirit duplicator masters can be made from them.

Math Series, Elementary Kit
.
James E. Kutz and Associates, Inc.
P. O. Box 140
McLean, Virginia 22101
.
AGDP101
.
$150.00

Prepackaged kit includes: 10 games, 40 tests and rating charts, all operational levels listed on back, Teacher's Manual and storage box.
Math Series, Intermediate Kit
James E. Kutz and Associates, Inc.
P. O. Box 140
McLean, Virginia 22101
AGDP101-I
$110.00

Prepackaged kit includes: 10 games, 40 tests and rating charts, math operations for fourth through eighth grades, Teacher's Manual, and storage box.

Math Series, Primary Kit
James E. Kutz and Associates, Inc.
P. O. Box 140
McLean, Virginia 22101
AGDP-101-P
$110.00

Prepackaged kit includes: 10 games, 40 tests and rating charts, math operations for first through fourth grade, Teacher's Manual and storage box.

Franklin Mathematics Series
Lyons and Carnahan
Educational Division, Meridith Corporation
407 East 25th Street
Chicago, Illinois 60616
Write for price list

This math series is filled with problems that draw on imagination and common sense, the books take students through a whole fascinating series of activities, projects, puzzles and games. Sample topics include: learn to fold, mirror magic, patterns and puzzles in mathematics.

Coordinated Cross-Number Puzzles
McCormick-Mathers Publishing Company
300 Pike Street
Cincinnati, Ohio 45262
Write for order numbers
63¢ per student copy
99¢ per teacher copy

Series of 6 consumable books, with puzzles which help students develop competence in the operations of mathematics. Each book contains hundreds of problems of all types that can be used for challenging practice material or for remediation.

Math Activities With Simple Equipment
Midwest Publications Company, Inc.
P. O. Box 129
Troy, Michigan 48084
Text-$5.95
Teachers Manual - $1.00
All activities are rated by reading level (no read, low read, medium read, high read). Age and grade levels are not identifiable by the student. The games, puzzles and other activities can be used in a classroom that may be traditional or open math laboratory.

Ranko

3rd-12th grade

- Midwest Publications, Inc.
  P. O. Box 129
  Troy, Michigan 48084
  $11.95

Game for 2-4 players using a deck of 48 cards. There are four such decks of increasing difficulty. The object of the game is to get 8 cards in ranking order in a rack. Ranko encourages students to think that a number can be represented by many numerals. For example, 16, $2^4$, and 31 five all are used for the number 16.

Orbiting the Earth

1st-8th grade

- Scott, Foresman and Company
  855 California Avenue
  Palo Alto, California 94304
  Write for order numbers and costs.

Four separate games: Addition, Subtraction, Multiplication, and Division. After tossing numeral blocks and correctly stating the basic fact called for, students may move markers from space station to space station. Each game includes a colorful 26" square vinyl playing field, numeral blocks, disc markers and complete instructions. For 2-6 players or teams.

Multi-decks

3rd-5th grade

- The Teachers Desk
  P. O. Box 305
  Healdsburg, California 95448
  $3.50

Teaches students to multiply while playing a game. There are 144 blue cards with rules for 4 easy card games. Multiplicards are presented in logical order with products printed only in countable sets of squares.

Numerical Baseball

1st-3rd grade

- The Teach-um Company
  Box 4232
  Overland Park, Kansas 66204
  NB-2
  $2.50

A classroom aid which encourages all children to be successful in math. Through competitive fun even disinterested children strive to answer problems in addition, subtraction, multiplication and division. Numerical Baseball may be played quietly during class by two or several may play.
Operational Systems Games
Webster/McGraw Hill
8171 Redwood Highway
Novato, California 94947
07-061130-0
$12.95

This kit of games represents concrete models for abstract math concepts. It contains game surfaces, playing pieces, and playing aids which enables students to play hundreds of mathematical systems games. Includes: 8 four-color playing surfaces, 120 playing pieces, 4 table cards, 2 circular slide rules and 1 instruction manual.

VIII KITS AND PREPACKAGED PROGRAMS

Math Modules
Appleton Century Crofts
440 Park Avenue South
New York, New York 10016
Complete program $399.00

Individualized, ungraded, student-oriented modern math program. Eight learning areas: Numeration/Place Value; Addition/Subtraction; Multiplication/Division; Fractions/Decimals; Geometry; Special Topics; Measurement; in 7 ability levels or modules. Each skill taught in a separate booklet. Includes placement and pretests.

Readiness in Math
Behavioral Research Laboratories
Box 577
Palo Alto, California 94302
0230
$49.95

Teacher-administered, calling for request responses. Children learn by discovery. They learn to recognize sets 0-9 numbers, add and subtract up to 9. Materials: demonstration book, nine 6x8" die-cut number cards, number chart, teachers manual.

Sullivan Basal Mathematics Program
Behavioral Research Laboratories
Box 577
Palo Alto, California 94302
0306-0342-$1.99 each
0343-0351-prices vary

Presented without use of the written word. Learn addition, subtraction, multiplication, division of whole numbers, fractions and decimals. Materials: 37 textbooks (0306-0342), Teacher's Record Book (0349), Student's Record Book (0350), and giant page-display (0351).

Sullivan Mathematics Kits
Behavioral Research Laboratories
Box 577
Palo Alto, California 94302
0360-0365
For strengthening the Computational Skills of math students. Each kit contains: Teacher’s Manual, test key, Giant Page, and three programmed textbooks.

Math Lab

Benefic Press
Wroman’s
2995 East Foothill Boulevard
Pasadena, California 91109
099895

$17.25

Contains 315 discovery type activities to expand the understanding and appreciation of math concepts in fractions, geometry, graphing, measurement, and number fun. Each section ranges in difficulty from primary level through junior high.

System 80: Learning Number Facts
Borg-Warner Educational Systems
7450 North Natchez Avenue
Niles, Illinois 60648

$150.00

Devises interesting and meaningful practice 92 audio-visual lessons. May be used in conjunction with any basal elementary mathematics program. Includes pre and posttests.

Arithma Think
Comspace Corporation
350 Great Neck Road
Farmingdale, Long Island, New York 11735

$29.95

Teaches counting, addition, subtraction, multiplication, division and logical thinking. Teaches logic of arithmetical operations in a game-like fashion. The child sees a problem on paper and solves it by physically performing mathematical operations using colored pegs and cut-outs. Included in price: 6 workbooks, 4 arithmetical programs with 48 math problems that attach to the machine, 1 parent’s manual, 1 teacher’s manual.

Cyclo-Teacher: Intermediate Math Cycles
Department CMD-CTS
Field Enterprises Educational Corporation
Mechandize Mart Plaza
Chicago, Illinois 60654
CT-2012

$15.50 (doesn't include Cyclo teacher device)

Each cycle is a complete instructional unit on either one or two study wheels. Require from 15 to 45 minutes to complete. Includes: addition, subtraction, division, multiplication, sets, numeration, beginning geometry, fractions and beginning algebra.
Learning Systems: Mathematics K-6th grade
Electronic Futures, Inc.
57 Dodge Avenue
North Haven, Connecticut 06473
C1000 or may order for each grade level
R1000
$795.00

The minisystem is primarily for use by the individual student under
the guidance of the teacher. Each minisystem consists of an audio
tape containing an instructional sequence and an activity sheet.
They provide opportunities for student response to questions and problems
posed on the tape. It is designed to teach the concepts and operations
basic to the school mathematic program.

Measurement Skills 1st-3rd grade
Encyclopedia Britannica Educational Corporation
425 North Michigan Avenue
Chicago, Illinois 60611
6640
$58.75

Based on the audio tutorial method of instruction presents inches and
fractions and centimeters and decimals. Both kits in the set contain color
filmstrip, cassette, game card, pupil practice pad, Teacher's Guide,
ruler, and magnifying glass. These materials utilize a multifaceted
approach which involves individual student, and large group participation
and teacher participation.

Telling Time 1st-3rd grade
Encyclopedia Britannica Educational Corporation
425 North Michigan Avenue
Chicago, Illinois 60611
6610
$89.00

This program consists of four 15 minute lessons that teach a child the
necessary key concepts and skills for telling time. The materials
are a complete teaching unit, utilizing audio instruction and manipulative
materials. Includes: 1 filmstrip, a cassette, pupil worksheets,
teacher/pupil book, and a model clock face.

Math Test Kit 1st-3rd grade
Enrich
3437 Alma Street
Palo Alto, California 94306
ERS-1
$5.95

Resource material for the busy teacher. The kit helps to extend, enrich
and improve student's math skills. For independent study and special
studies. Kit includes: (15) 2 sided Tangram task cards, (5 sets)
die cut Tangram pieces, (18) open ended task cards for weekly math labs-
measuring, counting, etc., (19) 2 sided geoboard task cards.
Unifix Mathematics Kit

- ETA
- 159 West Kinzie Street
  Chicago, Illinois 60610
- 120-4
- $95.00

For teaching basic mathematical concepts. The system is based on unit interlocking cubes which are used with a variety of racks, trays, boxes and holders also supplied in the kit. Also includes number cards, inset pattern board, number association cards, scan window makers, two-way bead stair, number pole, teacher's manual and much more.

ETA Primary Number Concept Kit

- ETA
- 159 West Kinzie Street
  Chicago, Illinois 60610
- 122X
- $50.00

For individual work. A selection of colorful and attractive materials designed to hold the attention of the very young while working on first numbers. Includes: matching strip book, all about 10-strip book, number sorting cards, ETA interlocking cylindrical units, ETA real things profile, and ETA everyday object counters.

Modern School Mathematics: Structure and Use, revised edition

- Houghton Mifflin
- 777 California Avenue
  Palo Alto, California 94304

Features the discovery approach, multi-sensory and varied learning techniques, a careful progression from concrete materials to abstract concepts and periodic skills reinforcement. Shapes, sets, measurement and the meaning of numbers are among the concepts presented.

Math Series, Primary Kit

- James E. Kuntz and Associates, Inc.
- P. O. Box 140
  McLean, Virginia 22101
- AGDP 101-P
- $110.00

Prepackaged kit includes: 10 games, 40 tests and rating charts, math operations for first through fourth grades, teacher's manual, and storage box.

Math Series, Elementary Kit

- James E. Kuntz and Associates, Inc.
- P. O. Box 140
  McLean, Virginia 22101
- AGDP 101
- $150.00

Prepackaged kit includes: 10 games, 40 tests and rating charts, all
operational levels listed on back, teacher's manual, and storage box.

Math Series, Intermediate Kit 4th-6th grade
- James E. Kutz and Associates, Inc.
  P. O. Box 140
  McLean, Virginia 22101
- AGDP 101-1
- $110.00

Prepackaged kit includes: 10 games, 40 tests and rating charts, math operations for fourth through eighth grades, teacher's manual, and storage box.

Countdown to New Math preschool-5th grade
- Learning Arts
  P. O. Box 917
  Wichita, Kansas 67201
- $179.95

Focuses on those key concepts and skills upon which the elementary program is based. Cassette tapes (10), filmstrips (10), eleven foot number line, matrix boards (6), and card packs (4).

Time Learning K-3rd grade
- The Learning Center, Inc.
  Princeton, New Jersey
- K107-10 (basic set for 10)
- $17.95

Set includes 10 plastic clocks with moveable hands and gears in the correct ratio. Each clock is provided with a set of removable, plastic clock faces which permit the study of different concepts. Includes: Teacher's Manual, sample set of discovery sheets with answers, 10 sets of plastic stencils for drawing clock faces.

Judgements and Readiness K-4th grade
- The Learning Center, Inc.
  Princeton, New Jersey
- $22.95 (basic set for 10)

This learning laboratory introduces children to properties of shape, size comparison, a definition of number and offers opportunity to become familiar with sets and number systems. Exploratory work done through a carefully structured series of lesson plans in the Teacher's Manual and discovery sheets stress personal judgement, thinking and individual work with materials.

Mathematics Laboratory Materials 1st-3rd grade
  1501 Broadway
  New York, New York 10036
- Write for order numbers and price list

Can be used as a basic program to introduce mathematical concepts
or as a supplement to the present primary math program. There are 649 lab sheets varied in visual appeal and length of task per page. Each child is provided with his own working materials and problems to solve on his level of comprehension and interest. His early work is based on the use of concrete materials such as the colored rods. The teacher helps him when help is desired.

Early Childhood Curriculum: Piaget Program
Learning Research Associates, Inc.
1501 Broadway
New York, New York 10036
$292.45
A program designed to foster the development of logical thinking processes of 4-6 year olds. Based upon the research of Jean Piaget the 22 materials sets provide over 160 activities in classification, number measurement and space (conservation) and seriation. The teacher's guide provides both mental operations and appropriate language models for each set of activities.

Inventory for Continuous Progress
Learning Research Associates, Inc.
1501 Broadway
New York, New York 10036
$98.00
The system developed by LRA is based on 5X8 margin-notched cards and is packaged as a classroom kit to provide an inexpensive, paper and pencil, pre-computer management tool for an individualized mathematics program that uses the leading mathematics series as source materials. Components: student performance objective cards, keyed to leading math series, prescriptive criterion tests, remedial resources keyed to tests, simple record system, immediate profile of student progress, prompt prescription for deficiencies.

Colorfax Addition and Subtraction Kit
200 F Brown Street
Riverside, New Jersey 08075
28537
$47.70
This manipulative teaching aid provides opportunities for discovery of underlying mathematical concepts and for practice leading to skillful and rapid calculation. The principal items are the 96 plasticized activity cards and the 300 plastic domino-like tiles of varying shape and color which represent number values from 1-10.

Math Skills Kits 1st-11th
McCormick-Mathers Publishing Company
300 Pike Street
Cincinnati, Ohio 45202
$54.00 per kit
The math skills kits fill the need for additional in-depth practice materials in mathematical computation at grade levels 3-6 and provide more adequately for the individual differences, abilities, and interests of the students. Includes: achievement tests, test answers, student record cards, a multi text reference guide and Teacher's Guide.

Mathematics Laboratory
  McCormick-Mathers Publishing Company
  300 Pike Street
  Cincinnati, Ohio 45202
  A9881-000-2
  $179.25

Designed to provide the individual student with practice in mathematical skills according to his own needs. Created for class participation with any basic mathematics program, individualized or ungraded situation, or small groups as practice supplement.

No Read Math Activities
  Midwest Publications Company, Inc.
  P. O. Box 129
  Troy, Michigan 48084
  Volume I-$29.00
  Volume II-$29.00

Provide one method of teaching math to students who are poor readers. No read math activities are in key sort card form following the same table of contents. The art work does not identify any particular school age so Volume I or Volume II can be used in junior or senior high if necessary.

A Cloudburst of Math Lab Experiments
  Midwest Publications Company, Inc.
  P. O. Box 129
  Troy, Michigan 48084
  Write for price list

Has over 1100 experiments in eight different mathematical subject areas (fundamental operations; sets, numeration, number theory; fractions; probability and statistics; geometry; applications; measurement; enrichment) to be used with any textbook. It is available in either book or key-sort card form. The experiments cover both modern and traditional math.

Unifix Multi-base Assembly
  Mind/Matter Corporation
  P. O. Box 345
  Danbury, Connecticut 06810
  M803
  $44.00

The Unifix System utilizes the Unifix Cubes. These 3/4" plastic cubes can be interlocked, built up and used as units. It is a basic kit designed to provide sufficient material for a group of 6-8 children to assemble and explore multi-base structures up to 4 places in base 8. Includes: 550 Unifix Cubes, 70 terminal cubes, 20 assembly grids, 150 retaining frames, 36 indicators and a set of multibase notation cards, plus a guide.
Academic Game Development Kit

Motivational Research, Inc.
P. O. Box 140
McLean, Virginia 22101

$110.00 Elementary School Kit
$95.00 Pre-school Kit
$110.00 Junior High Kit

The kit is a combination of diagnostic testing, rating and grouping procedures programmed materials, visual aids, instructional and reinforcement games. There are 10 game boards and 140 sets of question cards (10 questions each) which pose questions at 10 levels of difficulty in 17 math areas.

Plan Readiness Experience Program PREP Mini Pak Math

Plan, Inc.
P. O. Box 3281
1307 West Markham
Little Rock, Arkansas 72203

Write for prices and order numbers.

PREP-Plan's Readiness Experience Program is a comprehensive poly-sensory program for early childhood education. Major unit/topic cards and activity/lesson plan cards are included in the Mini-Pak. Each card lists all materials to be used and is a pre-planned lesson activity with full instructions which classify the lesson into 20-25 major areas of development.

Individual Mathematics: Algebra Skills Kit FF

Random House/Singer
School Division
201 East 50th Street
New York, New York 10022

02187

$64.95

An addition to the already established skill kits AA to DD. This kit allows students to work individually at their own rate and on their own ability level to develop and reinforce basic algebra skills.

Individualized Mathematics: Drill and Practice Kits

Random House/Singer
School Division
201 East 50th Street
New York, New York 10022

01584-3 (kit AA), 01586-X (kit BB), 01588-6 (kit CC), 01590-8 (kit DD)

$59.95 each

The kit allows students to work individually at their own rate of speed and on their own ability level. Complete and self-contained, each kit consists of 500 different lessons divided into 20 blocks; 20 different pretests; 20 different posttests; 30 student profile cards, and Teacher's Guide. By varying the order of the blocks, the kits can be adapted to fit the sequence of topics in most elementary math programs.
Distar Arithmetic I and II
Science Research Associates, Inc.
259 East Erie Street
Chicago, Illinois 60611
Write for prices and order numbers.


Cross-number Puzzle Boxes
Science Research Associates, Inc.
259 East Erie Street
Chicago, Illinois 60611
3-3780
$30.99

This supplemental program of four kits drills students in whole numbers, fractions, decimals and percents, and story problems, using intriguing crossword puzzle format. After initial introduction each student works independently and at his own pace--choosing his own puzzle, solving it and recording his progress in his student record book. Puzzles graded in difficulty within each box.

Arithmetic Fact Kit
Science Research Associates, Inc.
259 East Erie Street
Chicago, Illinois 60611
3-520
$59.30

This supplementary program has fact cards that develop speed, accuracy, and mastery of addition, subtraction, multiplication and division. Test results direct students to the proper place in the kit. Mastery test card follows each group of fact cards and evaluates progress. Self-help cards present concepts, activities, and hints to help in mastery of facts.

Mathematics Involvement Program
Science Research Associates, Inc.
259 East Erie Street
Chicago, Illinois 60611
3-8150
$154.00

This supplemental program is designed to develop concepts and skills through concrete and problem-solving experiences. Over 250 activity cards in seven levels of difficulty are organized by major math areas (numbers, geometry, measurement). Contains all necessary manipulative materials. Minimum reading makes it suitable for slow learners; average or better students benefit from individualized approach.
Math Applications Kit
Science Research Associates, Inc.
259 East Eire Street
Chicago, Illinois 60611
3-545
$58.85

Students investigate problems using elementary math. There are 270 activity cards that require students to collect and use data to derive conclusions. A supplement to any basal math program and an outstanding addition to math laboratories or learning centers. Components: 270 activity cards, 10 reference cards, a Student Handbook, a Teacher's Handbook and an Almanac.

Activities in Mathematics
Scott Foresman and Company
855 California Avenue
Palo Alto, California 94304
Write for order numbers and costs

This kit includes write-in pupil's books featuring activities and punchout manipulatives, teacher's edition with background material and teaching notes, and books of duplicating masters and overhead visuals. It incorporates games, puzzles and experiments into the program. Students measure blackboards, take their pulses, decode messages, and conduct experiments. With punch out grids, tops, meter sticks and many other devices to handle, students eagerly tackle abstract concepts.

Math Set: Measurement/Geometry
Scott, Foresman and Company
855 California Avenue
Palo Alto, California 94304
Write for order numbers and costs

Activity assignments lead students to discover basic mathematical ideas. Each student can work at his own interest and ability level with assignments printed on separate cards, grouped into units, numbered sequentially, and color coded for level of difficulty. Covers areas of measurement and geometry.

Fractions and Fractional Numbers/A Self-Instructional Multi-Sensory Approach
Special Education Materials Inc.
484 South Broadway
Yonkers, New York 10705
S E 2210
$60.00

A multi-media self instructional program which combines auditory, visual and kinesthetic experiences to reinforce the concept of fractions and fractional numbers. Program consists of 10 prerecorded lessons on cassette tapes; fraction discs to represent subject fractions, plastic trays to hold fraction pieces, and ten packs of 72 response sheets for each lesson.
Intermediate Math Programs
- Special Education Materials, Inc.
  484 South Broadway
  Yonkers, New York 10705
- SE 2214
- $339.00

This program gives intermediate students much needed individualized instruction in basic math concepts and skills. The program may be used to upgrade the skills of slower students, provide reinforcement for average students, and to challenge able students. Consists of 40 tapes, 30 student response booklets for each tape, 3 copies of the Teacher's Manual, and a placement test kit.

Primary Math Skills Improvement Program
- Special Education Materials Inc.
  484 South Broadway
  Yonkers, New York 10705
- SE 2212
- $339.00

The program builds pupil proficiency in math. The series includes 40 prerecorded tapes, 30 student response booklets for each tape, 3 copies of the Teacher's Manual and a placement test kit. A variety of highly motivating individualized exercises reinforce and extend fundamental math concepts.

Understanding Math Concepts
- Stanley Bowmar Company, Inc.
  Valhalla, New York 10595
- $98.77
- $19.95

Complete supplemental program which incorporates audio-visual techniques in a presentation designed to make basic mathematical ideas understandable. Especially effective as a remedial approach for students with problems in new math. Teacher's Manual, worksheets, and record.

Early Childhood Number Experiences
- Trend Enterprises
  P. O. Box 8623
  White Bear Lake, Minnesota 55110
- T-423
- $36.25

This unit contains materials for developing basic number concepts such as: matching, sorting, grouping, one-to-one relationships, number recognition and sequence. Included are: 1 three-part puzzle, 2 lace-a-shape sets, 1 chart, 4 wipe-off sets, 2 bingo games and a punch-a-shape set.
Sullivan Math Games
1st-5th grade
- Behavioral Research Laboratories
  Box 577
  Palo Alto, California 94302
  2675
  $49.95

1. Hainstock Blocks-manipulative device teaches number and numeral digits, etc.
2. Arithmetic-subtraction practice
3. Number-Place Steps-to read numbers, digits to 1000's, place value and zero
4. Abacus
5. Mathematical Checkers
6. BRL Equation Cards
7. Sullivan Math Cards
8. Number Sentence Game
9. Line Designs

Classroom Kit of Cuisenaire Rods
K-8th grade
- Cuisenaire Company of America, Inc.
  12 Church Street
  New Rochelle, New York 10805
  10020
  $16.25

Each kit contains individual containers of rods for 24 pupils with instructional guides for each, a photo text guide, teacher's edition, and cuisenaire geoboard. Introduces addition, subtraction, multiplication, division, and fractions. Extensive use of cuisenaire rods, number lines, and workbook sheets.

Modern Mathematics Made Meaningful
preschool-
- Cuisenaire Company of America, Inc.
  12 Church Street
  New Rochelle, New York 10805
  20010
  $12.50

Study kit for remedial or tutorial work with groups of 1-3 children. Includes teacher booklet (concepts, terminology and techniques of modern and traditional math), and 50 Topic Cards. Which provide step-by-step questions to help children understand mathematical relationships. Examples: number games, patterns, glossary and record "Number Song"

Opening Doors in Mathematics
1st grade
- Cuisenaire Company of America, Inc.
  12 Church Street
  New Rochelle, New York 10805
  Write for order numbers and costs

Combination of manipulative models, varied worksheet devices, graphic devices. Introduces addition and its inverse as well as multiplication and its inverse during the first year.

Ordinal/Cardinal Puzzles
preschool-
- Developmental Learning Materials
  1st grade
Set of 11 puzzles, each divided into 3 pieces. The Puzzle placement is self-instructional for example, a puzzle piece related to "5" can fit only the other pieces of the 5 puzzle. However, the cut of the puzzle is not so obvious the student can rely on that alone to do the matching. 7½ x 3½" puzzle mounted on superboard and boxed with instructions.

Arithmetic Tube
- Dick Blick
  P.O. Box 1267
  Galesburg, Illinois 61401
- 7725
- $8.00

For demonstrating basic concrete number groups 1-9 and addition facts through 6 as well as inverse operations. Flash cards placed next to the clear tube show addition problems in the abstract and concrete. Pupil works each problem by placing beads and number separators in the tube.

Early Learning System-Magnetics
shape set and shape cassettes
- EDL/McGraw Hill
  California Branch Office
  5610 Hollywood Boulevard
  Hollywood, California 90028
- 312077
- $65.00

The shapes are sturdy, laminated and come in three colors. The various shapes include: circles, squares, rectangles, triangles, and diamonds-in two sizes; big and little. The shapes are magnetized so that they adhere to the shape cards on which they are stored. Children use them for concrete manipulative experiences while learning about shapes and other concepts.

Advanced Math Kit
- ETA
  159 West Kenzie Street
  Chicago, Illinois 60610
- 124X
- $73.50

Contains demonstration and student materials for working with multibase and positive and negative numbers. Includes: counting and table board (for counting by units and multiplication and division), multibase math wheels, vertical multibase student frame 1-50 counting boards, zero centered wheel, tiplax binary demonstration frame

ETA Fraction Manipulatives
- ETA
  159 West Kinzie Street
Chicago, Illinois 60610

. 123X
. $67.45

Includes: set of fractions and equivalents, compact fraction books, fraction matching cards, inset placing tray (3 trays-5 units per tray; triangles, circles, squares), weight strip books, plastic weights.

ETA Geometry and Measurement Kit
. ETA
  159 West Kinzie Street
  Chicago, Illinois 60610
. 126X
. $49.50

Includes: a book on area with problems from line and shape measuring to finding areas of triangles; demonstration angles marker; cellograph geometrical display apparatus; 12" measure; yard measure, 5 foot tape; 3 sets each of introduction to measuring cards and geo-struct mathematical model construction outfit.

ETA Measurement and Capacity Kit
. ETA
  159 West Kinzie Street
  Chicago, Illinois 60610
. 125X
. $43.85

For group and individualized instruction. Includes: funnel, labels, plastic cubes, measuring jugs, liquid measures, 24-hour face clock.

Unifix Mathematics Kit
. ETA
  159 West Kinzie Street
  Chicago, Illinois 60610
. 120-4
. $95.00

For teaching basic mathematical concepts. The system is based on unit interlocking cubes which are used with a variety of racks, trays, boxes and holders. Also includes: number cards, inset pattern board, number association cards, scan window markers, 2-way bead stair, number pole, Teacher's Manual, and more.

Manipulative Aids for Modern School Mathematics
. Houghton Mifflin
  777 California Avenue
  Palo Alto, California 94304
. 1-4419
. $14.25

Colorful, versatile and precise, the manipulative aids help pupils discover basic math. Materials consist of geometric shapes, colored centimeter rods, an open-end abacus kit, a number line ruler, and centimeter grid paper. A full color Teacher's Guide suggests numerous and varied activities to be used with any modern math program.
Teaching-Learning Kit

Houghton Mifflin
777 California Avenue
Palo Alto, California 94304
1-14483
$26.16

The Teaching-Learning Kit consists of a board, a set of display objects, and a Teacher's Guide. There are 376 objects including numerals, symbols, placeholders, geometric shapes, number rods, abacus rods, abacus beads, clock hands, and elements for sets (apples, etc.) and Teacher's Guide.

Introductory Geometry

The Learning Center, Inc.
Princeton, New Jersey
K140-10 (basic set for 10)
$18.95

The laboratory permits even the youngest child to experiment with some of the tools and ideas of geometry. Includes: compass, plastic geometric shapes, ruler and straight edge.

Judgements and Readiness

The Learning Center, Inc.
Princeton, New Jersey
$22.95 (basic set for 10)

This learning laboratory introduces children to properties of shape, size, and comparison, a definition of numbers and offers opportunity to become familiar with sets and number systems. Exploratory work done through a carefully structured series of lesson plans in the Teacher's Guide and discovery sheets stress personal judgment, thinking, and individual work with materials.

Math Mates

Learning Research Associates, Inc.
1501 Broadway
New York, New York 10036
Write for prices and order number.

Math Mates are sets of durable activity cards illustrated in color and black and white, and designed to be used with the following math manipulatives: Math Balance, attribute blocks, abacus, 100 Number Board, Geostrips, Clinometer, primary shapes, and mosaic shapes. Each set contains 10 cards with each card listing a specific objective on goal and providing numerous motivational activities.

Pattern Board

The Learning Center, Inc.
Princeton, New Jersey
K102-10 (basic set for 10)
$16.95

The pattern board gives children opportunities to feel and see
number patterns, numbers in first and second decades, through 20 are explored linearly and in grouped patterns with 1 to 10. Addition and subtraction are revealed in terms of doubles and near doubles, and in grouping and regrouping of number patterns. A 40 page manual with lesson plans is included.

Simple Fractions

- The Learning Center, Inc.
  Princeton, New Jersey
- K115-10 (basic set for 10)
- $15.95

A multiplicity of shapes and fractional divisions is available in this learning laboratory. It includes a Teacher's Guide with lesson plans. Each group of children is given different fraction plastic trays; some are provided with 3" rubber pie in wholes, halves, thirds, sixths and twelfths; others with squares, linear strips, and oddly shaped fractions.

Time Learning

- The Learning Center, Inc.
  Princeton, New Jersey
- K107-10 (basic set of 10)
- $17.95

Set includes 10 plastic clocks with moveable hands and gears in the correct ratio. Each clock is provided with a set of removable plastic clock faces which permit the study of different concepts. Includes: Teacher's Manual, sample set of discovery sheets with answers, plus 10 sets of plastic stencils for drawing clock faces.

Unifix Cubes and related structural material

- Learning Research Assoc., Inc.
  1501 Broadway
  New York, New York 10036
- M1900
- $64.50

Classroom starter set includes interlocking cubes, number indicators, pattern boards, number tray valve, valve cards, units number cards, notation and counting ladder, building to 100 board, 5, 10 and units trays.

Colorfax Addition and Subtraction Kit

  200 F Brown Street
  Riverside, New Jersey 08075
- 28537
- $47.70

This manipulative teaching aid provides opportunities for discovery of underlying mathematical concepts and for practice leading to skillful and rapid calculation. The principal items are the 96 plastic activity cards and the 300 plastic domino-like tiles of varying shapes and colors which represent number values from 1-10.
Visionetics-Geometry and Algebra

Mafex Associates, Inc.
111 Baron Avenue, Box 519
Johnstown, Penn. 15907
Write for prices

Curriculum oriented learning aids designed to satisfy the child's needs for exploration and discovery. Includes: Geometric Plan Figures, Pythagorean Theorem, Area of Parallelogram and Triangle, Area of Trapezoid, Area of Circle, Pi Determinant, Geometric Solids, Discovery Geometry, Geoboard Kits, Geometric String Pictures.

Visionetics-Mathematical Operations

Mafex Associates, Inc.
111 Brown Avenue, Box 519
Johnstown, Penn. 15907
Write for prices

Curriculum oriented learning aids designed to satisfy the child's needs for exploration and discovery. Includes: Moveable disc number line, disc number line, sliding number line, multiplication board, Napier's Rods, fractional parts, addition facts and fraction facts, design-a-matics, and arithmograms.

Visionetics-Measurements

Mafex Associates, Inc.
111 Brown Avenue, Box 519
Johnstown, Penn. 15907
Write for price list

Curriculum oriented learning aids designed to satisfy the child's needs for exploration and discovery. Includes: manipulative clock, primary clock face, combination clock, quick conversion units, rulers (standard and new math), Navigation Kit; latitude finder, longitude computer, plotting board, chronometer.

Visionetics-Number Systems

Mafex Associates, Inc.
111 Brown Avenue, Box 519
Johnstown, Penn. 15907
Write for price list

Curriculum oriented learning aids designed to satisfy the child's need for exploration and discovery. Includes: New Math Symbols, Binary Selection Cards, Logical Riddle Fractions, Base conversion rulers, base system fact cards, binary multiplier and divider, binary slide rule, binary pattern cards, new math slide rulers.

Unifix Early Childhood Kit

Mind/Matter corporation
P. O. Box 345
Danbury Conn. 06810
MB800
$53.00

The Unifix system utilizes the Unifix Cubes. These 3/4" plastic
cubes can be interlocked, built-up, and used as units. Recommended for use with groups of 6 children. 500 Unifix Cubes (50 each of 10 colors), 2 1-10 stairs, 2 1-10 valve boats, 2 sets number indicators, 2 10x10 number trays, 1 1-10 insert domino pattern board, 1 1-10 insert two pattern boards, 1 1-106 number track, 2 1-10's and units trays, 1 Teacher's Manual.

Unifix Math Lab Kit
. Mind/Matter Corporation
. P.O. Box 345
. Danbury, Conn. 06810
. M801
. $44.00

The Unifix set utilizes the Unifix Cubes. These 3/4" plastic cubes can be interlocked, built up and used as units. Includes: 500 Unifix Cubes (50 each of 10 colors), 20 sheets grid material for multibase structures, 2 century 1-100 counting and multiplication boards, 100 yellow scan marker windows, 1-100 number track, set 1-100 number tablets, Teacher's Manual, group work guide, multibase structure guide.

Unifix Multibase Assembly Kit
. Mind/Matter Corporation
. P.O.Box 345
. Danbury, Conn. 06810
. M803
. $44.00

The Unifix System utilizes the Unifix Cubes. These 3/4" plastic cubes can be interlocked, built up and used as units. This is a basic kit designed to provide sufficient material for a group of 6-8 children to assemble and explore multibase structures up to 4 places in base 8. Includes: 530 Unifix Cubes, 70 terminal cubes, 20 assembly grids, 150 retaining frames, 36 indicators and a set of multibase notion cards, and a Teacher's Guide.

Mathematical Shapes
. Nasco
. Fort Atkinson, Wisconsin 53538
. Write for prices and order numbers

Explains geometric wire gorms and patterns, large geometric plastic forms, Big Bunyan Blocks, geometric shapes and solids, 3-D geometrical forms, number relation blocks, design blocks, polyhedron models, plane geometric figures, Hubbard Math Models.

XII SUPPLEMENTAL TEXTS AND READERS

Approach to Numbers
. 111 Brown Avenue, Box 519
. Johnstown, Penn. 15907
. 90¢

A series of four readers that teach abstract number language. A new approach to number language for primary school children based on the work of Piaget, which lays a basis of understanding for language and structural math. The child is led to a real grasp of size, and number.
Count Fingers, Count Toes

T.S. Denison and Company, Inc.
5100 West 82nd Street
Minneapolis, Minnesota 55437
513-00074-7
$4.95

These are 8½ x 11" line drawing illustrations, paper binding, 38 pages.
Introduction to the dynamics of number systems. Rhymes and easy style.

Learning Programs

3rd-6th grade

Coronet Films
65 East South Water Street
Chicago, Illinois 60601
Write for prices

Three separate programs: Understanding Problems in Arithmetic, Introducing the Metric System, and Number Bases, and Binary Arithmetic.

Jr./Sr. High Mathematics TEMAC

9th-12th grade

Encyclopedia Britannica
Educational Corporation
425 North Michigan Avenue
Chicago, Illinois 60611
For individual order numbers and costs write company

A collection of programmed texts, particularly suited to learning both the skills and content of mathematics. Designed for use in conjunction with regular teaching materials: algebra, basic math, trigonometry, calculus, geometry.

Mathex

1st-8th grade

Encyclopedia Britannica Educational Corporation
425 North Michigan Avenue
Chicago, Illinois 60611
Primary Set No. 66001
Junior Set 66002
$60.50 per set

A versatile, student-activity oriented mathematics program providing materials to supplement a basal text book program. Includes resource book for the teacher, packages of pupil page units and an introduction booklet.

Whole Numbers and Numerals

1st-3rd grade

Encyclopedia Britannica Educational Corporation
425 North Michigan Avenue
Chicago, Illinois 60611
50266-Text
50262 Teacher's Manual
$8.50 text
$1.25 Teacher's Manual

A unit course for developing the arithmetic of whole numbers which stresses the basic properties of whole numbers and of positional systems of numeration. Base 10, base 7 and other base systems are developed.
Arithmetic of the Whole Number 6th-8th grade
- Encyclopedia Britannica Educational Corporation
  425 North Michigan Avenue
  Chicago, Illinois 60611
- 50234 text
- 50236 Teacher's Manual
- $8.50 text
- $.75 Teacher's Manual

A programmed unit course for teaching the four basic arithmetic operations with whole numbers at 6th to 8th grade level. Rules are not merely stated; arithmetic techniques are developed step by step from basic definitions.

Elementary Arithmetic 1st-3rd grade
- Grolier Educational Corporation
  575 Lexington Avenue
  New York, New York 10022
- Tm 301, Tm 302, Tm 501, Tm 502, TT 503
- $7.50, $10.00, $10.00, $15.00, $10.00

A series of 6 books, all programmed for independent work covering the topics of time telling, introduction to numbers, addition and subtraction, multiplication and division, decimal numbers, and fractions.

Intermediate Mathematics 3rd-6th grade
- Grolier Educational Corporation
  575 Lexington Avenue
  New York, New York 10022
- Tm 301, Tm 302
- $7.50, $10.00

Series of 2 books programmed for individual instruction and independent work. Covers introduction to modern math and modern math; properties of number system.

Secondary Mathematics 9th-12th grade
- Grolier Educational Corporation
  575 Lexington Avenue
  New York, New York 10022
- Tm 501, Tm 502, TT 503
- $10.00, $15.00, $10.00


Modern Practice Books in Arithmetic 1st-7th grade
- Steck-Vaughn Company
  P.O. Box 2028
  Austin, Texas 78767
- Write for costs

Designed to supplement textbooks utilizing the traditional math approach. Lessons in each book consist of mixed and cumulative drill material with clear-cut directions and ample space for the pupil's work.
Designed to add depth, scope and flexibility to any modern math program, this new series explores some of the most fascinating topics in math. Emphasis is on discovery, on methods of mathematical investigation, and on the nature and objectives of math itself.

Modern Mathematics for Achievement

Two one-year general math texts for low achievers, divided into 8 paperbound booklets emphasizing practical concepts and skills. It is clearly related to both vocational and everyday needs. The approach is inductive, with a minimum amount of reading material, frequent change of pace, a built in testing program and many day-to-day exercises that assure success to motivate low achievers.

The Random House Mathematics Program

Helps to create a math lab atmosphere systematically and easily. Provides strong skill development and contemporary content. Develops problem-solving techniques in a multi-level way; a way which recognizes the link between problem solving and reading skills.

Franklin Mathematics Series

This math series is filled with problems that draw on imagination and common sense. The books take students through a whole fascinating series of activities, projects, puzzles, and games. Sample topics include: learn to fold, mirror magic, patterns and puzzles in math.

Understanding Modern Mathematics
This is a series of programmed texts. Throughout each program in the series the student proceeds at his own pace. Each program is complete in itself and contains between 400 and 500 instructional frames, as well as exercises and discussion questions. The programs are in two colors and are fully illustrated. Includes: basis and numerals, factors and primes, modular systems, number sentences, points, lines and planes, and probability.

XIII TEACHING MACHINES

Self Instructional Mathematics
Electronic Futures, Inc.
57 Dodge Avenue
North Haven, Connecticut 06473
SIBM

Audio flashcards are structured programs presented in a multi-sensory format for self-instructional or teacher directed learning activity. This program encompasses the full complement of skills, concepts and abstract principles encountered in the basic mathematics curriculum. To be used with audio-flash card reader.

Basic Mathematics: Tutorgram
ERCA
Iron Ridge, Wisconsin 53035
3C
Tutorgram $24.50
Basic math program $8.50

A learning machine which lights up and rings a buzzer with a correct response is the basic format. This program provides basic math concepts.

Mathematics: Tutorgram
ERCA
Iron Ridge, Wisconsin 53035
6B
$24.50 tutorgram
$8.50 math program

A learning machine which lights up and rings a buzzer with a correct response is the basic format. The program provides reinforcement and drill of math concepts in computation, math sentences, and an expansion of the earlier concepts found in the basic math program.

Countdown
Individualized Instruction Inc.
P.O. Box 25308
1901 North Walnut
Oklahoma City, Oklahoma 73125
$198.00

A supplemental modern math program utilizing individualized cassettes. A blending of content and technique from both traditional and modern math. Covers: number concepts, addition, subtraction, multiplication and division. Requires verbal responses from student through use of pacer which gives feedback.
Intermediate Mathematics  3rd-6th grade
  Study Scope Company
  319 East Front
  Tyler, Texas 75701
  40000
  $79.50

Study scope; a plastic cylinder that has 2 transparent windows, one presents a problem the other the solution. Set includes; 15 study scopes, 6 levels of programs, 6 individual study scribes, 30 pupil progress reports, Teacher's Manual. Individualized program topics: multiplication, division, place value, fractions, decimals, geometric figures, percents, ratios.

Primary Mathematics: Study Scope  1st-3rd grade
  Study Scope Company
  319 East Front
  Tyler, Texas 75701
  30000
  $79.50

Study scope; a plastic cylinder that has 2 transparent windows, one presents a problem and the other the solution. Set includes: 15 study scopes, 6 levels of programs, 6 individual study scribes, 30 pupil progress reports and Teacher's Manual. Meant as a supplement to traditional or modern math program. Allows individual work.

XIV TEACHER REFERENCES

Experiencing Mathematics  1st-3rd grade
  Macmillan Publishing Company, Inc.
  200F Brown Street
  Riverside, New Jersey 08075
  13656
  $4.95

This easy to use guide helps teachers deal effectively with the math-lab approach and math-lab experiences.

Cheap Math Lab Equipment  1st-6th grade
  Midwest Publications, Inc.
  P.O. Box 129
  Troy, Michigan 48084
  $3.00

The book tells how to make 25 pieces of equipment and how to use them in 150 activities. The equipment are simple enough to construct that most of them can be made by the students.

Creative Experiments in Algebra  6th-10th grade
  Midwest Publications, Inc.
  P.O. Box 129
  Troy, Michigan 48084
  $1.50

Consists of 40 experiments designed to supplement standard texts.
It is so organized that it lends itself to small group, individual student, or total classroom instruction. The book leans very heavily toward the instructional philosophy that would be characterized as discovery oriented.

Creative Geometry Experiments
- Midwest Publications, Inc.
  P.O. Box 129
  Troy, Michigan 48084
- $1.50

28 experiments on a variety of geometry topics, including some well-known puzzles with directions for building them. These materials present situations within the environment that can illustrate mathematical concepts.

The Fabric of Mathematics
- Midwest Publications, Inc.
  P.O. Box 129
  Troy, Michigan 48084
- $12.50

A resource book for teachers interested in individualizing math instruction. Suggestions for a multi-media approach are carefully organized. Includes: number, numeration, measurement, geometry, sets and logic, manipulatives, games, activities, visuals, bibliographies, references for teachers, addresses of publishers.

The Laboratory Approach to Mathematics
- Science Research Associates, Inc.
  259 East Erie Street
  Chicago, Illinois 60611
- 3-4790
- $5.40

This book explains the laboratory method in mathematics. It tells how this approach relates learning to experience, creates an atmosphere conducive to learning and to progress at his own rate. Provides explicit guidelines for planning and presenting laboratory investigations and directions for organizing students and materials. Describes methods of evaluating student progress and the effectiveness of the laboratory methods.

XV TRANSPARENCIES AND OVERHEAD VISUALS

Harbrace Mathematics Instructional Slides
- Harcourt Brace Javanovich, Inc.
  757 Third Avenue
  New York, New York 10017
- 0-15-396564-9
- $385.00

A slide program designed to introduce, review, or reinforce mathematical concepts. 750 full-color 35 mm slides presenting addition, subtraction, multiplication, division, measurement, geometry, graphs,
rational numbers, problem solving. Includes Teacher's Handbook. Normal classroom lighting is maintained, can project images on board so pupils can write directly on the image.

Algebra Visuals I
- Houghton Mifflin
  777 California Avenue
  Palo Alto, California 94304
- 2-77379
- $79.50

Set of overhead visuals to reinforce basic subject matter. Introduces and demonstrates difficult concepts.

Geometry Visuals
- Houghton Mifflin
  777 California Avenue
  Palo Alto, California 94304
- 2-28758
- $84.00

Set of colorful overhead visuals for presenting abstract concepts of plane, coordinate and space geometry.

Geometry Transparencies
- Nasco
  Fort Atkinson, Wisconsin 53538
- Write for prices and order numbers

The transparencies are well done with detailed, accurately scaled drawings covering the topics of forms, binomial expansion, coordinate geometry, points, lines and planes, area relationship, parallelograms and parallelepiped, pythagorean relation, lines, arcs and circles, similar triangles, theorems of concurring and loci.

Visualizing Elementary Mathematics
- Random House/Singer
  School Division
  201 East 50th Street
  New York, New York 10022
- 01537-1 (kit A), 01542-8 (kit B), 01547-a (kit C), 01552-5 (kit D)
- $66.00 (kit A), $153.00 (kit B), $5.46 (kit C), $5.46 (kit D)

Kit A for overhead projector (k-2)
Kit B for overhead projector (k-8)
Kit C for flannel board (k-8) sets and numbers
Kit D for flannel board (k-8) geometric shapes and fractions

Essco Educational Supply
- 2823-25 East Gage Avenue
  Huntington Park, California 90255

Learning Media Corporation
- 231 North 63rd Street
  Philadelphia, Pennsylvania
WORKBOOKS AND WORKSHEETS

Three Track Arithmetic Workbook

* Acadia Press, Inc.
  1144 South Main Avenue
  Scranton, Penn. 18504
  $1.32 list/99C net

Provides for relearning and practice at various levels of difficulty and achievement, to help solve the problem of individual differences.

Track 1: practice meaning and application of the fundamentals of math.
Track 2: continuation of the material presented in 1st track.
Track 3: challenging material for superior pupils. More difficult and newer applications of fundamentals.

Skills in Basic Mathematics

* Appleton Century Crofts
  440 Park Avenue South
  New York, New York 10016
  Write for order numbers

Text, write and see for immediate reinforcement. Cassettes available in English and Spanish. 48 lessons covering A, B, C, D, E.

Fundamental Operations
Understanding Fractions
Using Fractions
Understanding Decimals
Decimals, Percents and Ratios

Arithmetic-Handy Pack

* Fern Tripp
  2035 East Sierra Way
  Dinuba, California 93618
  $ 2.50
Contains eight pieces: one calendar pattern and seven pads of 20 to 80 sheets each for use as practice in teaching the calendar, U.S. money, check writing, multiplication tables, useful formulas and important measures. One pack contains enough sheets in each pad for one practice for each student in a class of 18.

Supermarket
   Fern Tripp
   2035 East Sierra Way
   Dinuba, California 93618
   $2.20 student copy
   $2.40 teacher's copy

This unit covers story problems in grocery buying; U.S. money; change making; check writing; sales slip writing; simple functional basic arithmetic facts and processes used in grocery buying; use of weights, ounces, pounds and dozen; number words frequently used and can size and servings.

Experiments in Mathematics (third stage)
   Houghton Mifflin
   777 California Avenue
   Palo Alto, California 94304
   2-43725, 2-43729, 2-43733
   $1.44 each

Paperbound books intended for supplemental use in mathematics classes where a laboratory approach is desired. Especially appropriate in junior high and general math at high school level.

Mathematics in the Making
   Houghton Mifflin
   777 California Avenue
   Palo Alto, California 94304
   1-03030-1-03041
   $1.50 each

Series of 12 two-color paperbound booklets with a variety of laboratory-oriented enrichment activities. Each booklet develops a particular topic through concise statements and questions, and an abundance of large, clear illustrations. Examples: pattern, area and angles, cubes, networks, graphs, statistics, sets and relations.

Number Readiness
   Mafex Associates, Inc.
   111 Baron Avenue, Box 519
   Johnstown, Penn. 15907
   $1.75 each

There are plenty of practical exercises on every page, all systematically planned to develop powers of observation and learning. Some concepts presented are size relationships, surface textures and planes, calendar, distances, adding and taking away.
Skill in Basic Mathematics
   New Century Publications
   Educational Division, Meredith Corporation
distributed by Appleton-Century-Crofts
   440 Park Avenue, South
   New York, New York 10016
   $4.65 per unit

This series is designed for students entering junior high school who have not yet mastered basic concepts and skills in major areas of the math curriculum. It uses simple vocabulary in word problems with minimal use of technical terms explaining concepts by example rather than in verbal paragraphs and provides extensive practice in each skill area.

Practice for Modern Mathematics
   Steck-Vaughn Company
   Box 2028
   Austin, Texas 78767
   99¢ per book

The workbooks are filled with puzzles and number games with colorful illustrations that add to mastering the skills of modern mathematics. Each workbook is correlated at grade level with the most widely accepted modern mathematics textbooks today. Exercises are included to develop theory, properties of real numbers, and topics in geometry.

Practice for Modern Mathematics
   Steck-Vaughn Company
   Vaughn Building
   P.O. Box 2028
   Austin, Texas 78767
   Write for prices and order numbers

This series of student workbooks, is designed to supplement most modern mathematics textbooks by providing meaningful exercises in fundamental operations and number relationships. The material within each book is correlated at grade level with the most widely accepted mathematics textbooks currently used in public schools.

Arithmetic Concept Plaques
   Webster/McGraw Hill
   8171 Redwood Highway
   Novato, California 94947
   Write for prices and order numbers

These two sets of polystyrene plaques and accompanying fourcolor workbooks represent a unique kinesthetic approach to teaching basic addition and subtraction. Children color in numbers and dots with special nontoxic washable pencils—a perfect way to learn numeral forms and concepts before writing them on paper. Of special help to students with learning difficulties.

Exploring Mathematics on Your Own
   Webster/McGraw Hill
   5th-9th grade
Mathematical enrichment booklets dealing with many forms of modern mathematics. For self study or for use with better math students. Complete set of 18: sets, sentences and operations, topology, number pattern, statistics, graphing, vectors, curves in space, logic.

Programmed Math

7th-up

Webster/McGraw Hill
8171 Redwood Highway
Novato, California 94947

Write for prices and order numbers

A structured series for students who need help with fundamental math operations. Books 1-8 and the corresponding word problem books constitute a complete program in basic skills. Books 9-15 offer a wide range of applied math topics particularly suitable for remedial work at grades 7 and up.