Early Learning

- **Tactile Treasures: Math and Language Concepts for Young Children with Visual Impairments**
  http://www.aph.org  1-08842-01
  - Tactile Treasures Tactile/Color Edition is an informal assessment and teaching tool for use with children from preschool through elementary grades. It helps students develop an early understanding of basic concepts and vocabulary that are prerequisites for reading and math. By pairing tactile graphics of thermoformed real objects with included descriptive scripts/stories, over 90 concepts related to shape, size, comparison of two or more objects, amount, position, and page orientation can be introduced and reinforced. Tactile Treasures consists of 79 colorful thermoformed sheets featuring tactile pictures created from real objects that illustrate math and language concepts. The types of thermoformed objects are numerous—from pretzels, buttons, and rings to zippers, scissors, and shells. The variety of objects depicted adds interest, encourages exploration, and helps broaden vocabulary. An accompanying teacher’s guidebook provides two suggested scripts or stories for every concept introduced. The tactile graphics contents of each binder are as follows:
    - Binder I: Shape and Size Concepts
    - Binder II: Comparison and Amount Concepts
    - Binder III: Position and Pre-Reading Concepts
    - Large Print Teacher’s guidebook with two scripts/stories for each concept presented. The guidebook also gives a general overview of the materials, instructions for use, extended activities, and a Checklist of Concepts (for monitoring a student’s progress).

- **Giant Textured Beads with Pattern Matching Cards**
  http://www.aph.org  1-03778-00
  - Helps teachers and parents working with young students in preschool, kindergarten, and early elementary grades who have visual impairments and blindness. Additionally, because the Pattern Matching Cards reinforce the tactile continuum from real object (most basic level) to raised-line graphics (most advanced level), students in higher grades will be challenged by the increasing difficulty posed by the “Platform” and “3-D View” matching cards. Encourage development of the following concepts and skills:
    - Exploring and identifying shapes, textures, and colors
    - Sorting and classifying by various attributes
    - Recognizing, describing, repeating, extending, and creating patterns that are consistent with the National Council of Teachers of Mathematics (NCTM) Standards for Grades K-3
    - Fine motor skills such as stringing beads or inserting beads and matching cards into sorting trays
    - Vocabulary expansion related to shapes, textures, colors, and spatial concepts
    - Interpreting tactile displays within a purposeful context
  - Includes:
    - 12 Giant Textured Beads with three different textures, colors, and shapes
- Bead Stringer
- Drawstring bag (to store beads)
- 12 “Duplicate” color/ tactile matching cards
- 12 “Platform” color/ tactile matching cards
- 12 “3-D View” color/ tactile matching cards
- 2 Sorting Trays with non-skid backing
- Activity Booklet, both large print and braille
- Storage/Carrying Box

**Shape Board** [http://www.aph.org](http://www.aph.org) 1-03710-01

- Learn to discriminate, sort, and classify different geometric figures according to size, shape, color, or position on a pegboard.
- This revised board has proportional shapes that contrast brightly against the yellow pegboard and aids in understanding up, down, right, and left.
- Consists of 25 geometric figures and a board with three columns of five pegs. Includes five different shapes (square, rectangle, triangle, circle, and pentagon) in small, medium, and large sizes.


- An activity-based program that emphasizes the fundamental operations, properties, and structures of math.
- APH's classic FOCUS in Mathematics Kit has been extensively redesigned. Intended for students in pre-k through first grade, objectives are aligned to National Council of Teachers of Mathematics Curriculum Focal Points. Materials include hundreds of manipulative items, designed to be easily handled and offer tactile and visual contrast. Teacher materials include a Teacher's Guide, reusable student worksheets, and printable assessment checklists included on the CD.
- Units
- Numbers and Operations
- Geometry
- Algebra
- Measurement
- Data Analysis

- **MathBuilders, Unit 1: Matching, Sorting, and Patterning** which is available at [http://www.aph.org](http://www.aph.org) 7-03560-00
  - Objectives for each lesson have been aligned with the Principles and Standards for School Mathematics from the National Council for Teachers and Mathematics (NCTM).
  - Unit 1 includes:
    - Teacher’s guide with lesson plans for grades K-3
    - CD-ROM with General Guidelines for Teaching Math to Young Braille Users
    - 58 geometric shapes with different sizes, shapes, textures, and colors
    - Felt board
    - Textured shapes with Velcro®-backing
    - Point symbol stickers
    - Length sticks
    - Bell bracelet and rattle for creating sound patterns
- **Ten-frame trains** which is available at [http://www.didax.com](http://www.didax.com) 2-2200W
  - Students develop a concrete understanding of the concept of ten with these connecting train cars, each holding 10 Unifix Cubes (or other suitable counter). By filling the spaces and connecting the cars, children can see and feel “10 and some more,” 20, 30, etc. Includes ten cars, ten-frame spinner, and teacher’s guide with games, teaching ideas, and assessment instructions. Unifix Cubes not included. For individual or small group use.

- **Hundreds Board** which is available at [http://www.aph.org](http://www.aph.org) 1-03105-00
  - These two boards and included manipulative items can be used to help teach basic math concepts. Includes two desk-sized boards made of heavy-duty plastic. The Boards have a raised-line, 10 x 10 grid outlined in black. Grid is blank and manipulatives can be attached to it. This number grid is preprinted with the numbers 1 through 100 in large print and in Nemeth Braille. This board acts as a reference to check work placed on the Grid Board and can be used for concept demonstration. Included are hundreds of manipulative pieces made of tough plastic and backed with loop material for attaching to the Grid Board. There are two kinds of manipulatives, numbers (1 through 100) and four colored shapes. Uses include Patterning, Counting, Ordering numbers, Comparing numbers, Basic Operations, Graphing data, Using cardinal directions.