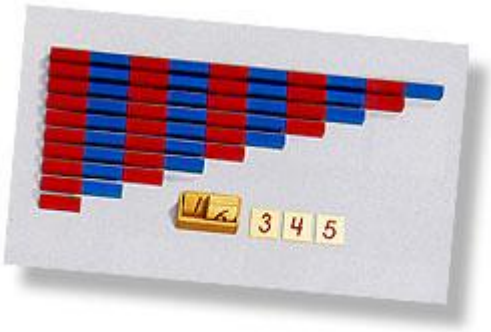
MATHEMATICS

Math materials allow the children to have a sensorial and concrete experience of the abstract. This allows children to store concepts so that when the time comes to deal exclusively in abstract terms, the understanding and foundation already exists. Every piece of material isolates one concept, which integrates to form the basis for a further step in the child's understanding of mathematics.

Number Rods

The Number Rods introduce the child to quantity 1-10, their corresponding number names, and the difference between odd and even. Through exploration with the material, the child also develops concepts in sequence of number, combinations of 10 and basic arithmetic.

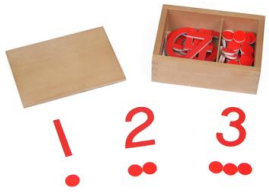


Sandpaper Numerals

The sandpaper numerals introduce the child to symbol 0-9 and their corresponding number names. By tracing the numerals in the style and direction in which they are written, the child is preparing for writing numbers. The child is then given the opportunity to relate his knowledge of quantity and symbol with the number rods and cards.

Spindle Boxes

Spindle Boxes provide practice in counting skills and associating quantities and symbols for numbers 0-9, and introduces zero as no quantity.



Cards and Counters

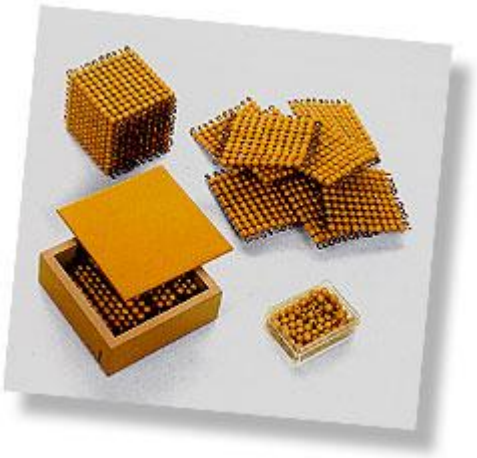
After becoming proficient in the understanding of counting to ten, children can move to the cards and counters. Children lay out the counters to match the number bards, confirming that the child understand the order of the numbers and can accurately represent the quantity with the counters. This activity also graphically emphasize the concept of odd and even.

Number Card Symbols for the Decimal System

This activity introduces the numbers for one through nine in the units, tens, hundreds, and thousands. All number sets are color coded by category to emphasize place value. Cards are stacked together to form numbers up to 9,999.

Golden Bead Material

The golden bead material provide a hands-on introduction to the decimal system with concrete representations of the hierarchy of numbers. Quantity and place value of the decimal system are explored by the child in activities in the operations of addition, subtraction, multiplication and division.



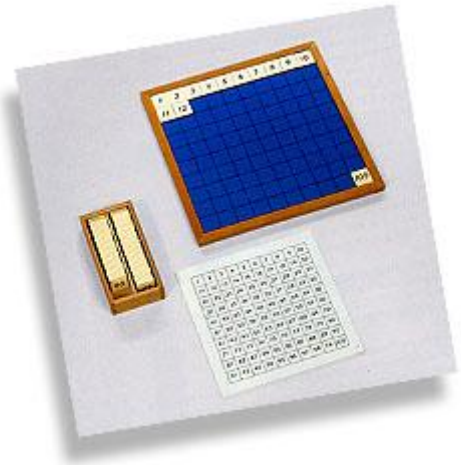
Stamp Game

This game is used to practice more difficult math problems, moving to a higher level of abstraction. The Stamp Game provides opportunities for individual practice in the operations of addition, subtraction, multiplication and division. The quantity and symbols of the decimal system are combined and are represented by each "stamp".

Seguin Boards

The teen board highlights the terminology, sequence and formation of numbers eleven through nineteen. Children create bead quantities using the ten bars and unit beads. A series of lessons introduces the teen numbers.

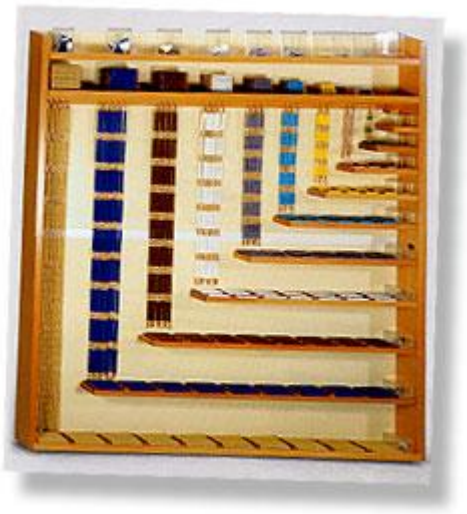
The ten board, similar to the teen board, highlights the terminology, sequence, and formation of numbers ten through ninety-nine. Bead quantities are created from the ten bars and unit beads in the Tens Bead Box and are associated with the corresponding numeral on the Tens Board.



Hundred Board

An enjoyable counting activity that reinforces the sequence of numbers from 1-100. The Hundred Board is used by placing the wooden chips in sequence on the board.

Bead Material
This extensive set of bead material is used for the exercises of linear and skip counting the quantities of the squares and cubes of the numbers 1-10. It prepares the child for later activities in multiplication, squaring and cubing, as well as base number work.



Addition Equations and Sums Box
This two-compartment box with lid contains plastic chips, one set with equations printed on them and one set with the answers to be used with the addition working charts. These aid the child in practice and memorization of the unit addition combinations.

Colored Bead Stairs
The colored bead stairs are used for activities of addition, subtraction and multiplication.

Geometric Cabinet

These materials are used to introduce the child to regular, flat, geometric shapes. It assists in developing an awareness of shapes in the environment and provides concrete and visual experience with geometric shapes.

Fraction Circles

Provides concrete and visual experience with fractions. This material is used to first understand the concept of fractions. We build on that concept teaching the child equivalent fractions, addition and subtraction of fractions.