

Material	Purpose
<b>Math</b>	
<b>Numeration</b>	
Number rods	Learning quantity 1-10, intro to the sequence of numbers
Sandpaper numbers	Teach recognition of written symbols and how to form them
Spindle box w/ 45 spindles	Introduction of zero, sequence of numbers 0-9
Numeral line	Learning to count 0-9, arrange numerals in sequence
Cards & counters	Recognition of numbers 1-10, visual impression of odd and even numbers
Memory game	Development of memory retention of quantity, internalization of numeration
<b>Decimal System/Operations</b>	
1-9000 small and large numeral cards	Acquaint child with written form of units, tens, hundreds, and thousands
Golden beads	Visual impression of units, tens, hundreds, and thousands; enables child to see, feel, and experience math problems concretely
10 squares, wooden for banking	
100 squares, wooden for banking	
1000 squares, wooden for banking	
<b>Linear Counting</b>	
Short bead stair	Counting by one, preparation for abstraction
Bead stair sets, 1-10 w/ wooden box	
Bead chains for cubing	Introduce skip counting, increase ability to rote count
Bead chains for squaring	Preparation for skill counting, preparation for multiplication
100 board w/ tiles	To develop memory for numerals 1-100, reinforce rote counting 1-100
Teen boards w/ storage	Learn names and sequence of 11-99 and associate names with quantities
Ten boards w/ storage	
Stamp game	Uses concrete material for manipulation of the four operations (+, x, ÷, -)
<b>Memorization &amp; Abstraction</b>	
Addition strip board	Presentation of basic addition facts, analysis of number
Multiplication board	Understanding and memorization of multiplication facts

<b>Material</b>	<b>Purpose</b>
Addition charts	Memorization of basic addition facts
Multiplication charts	Memorization of basic multiplication facts
Subtraction charts	Memorization of basic subtraction facts
Subtraction strip board	Presentation of basic subtraction facts in concrete form
Division board	Understanding the process of division, presentation of basic division equations
Division charts	Memorization of basic division facts
Positive Snake game	Preparation for addition, reinforcement of exchanging, research of ten
<b>Fractions</b>	
Fraction insets	Expore concept of fractional differences
Fraction game w/ 12 cards & 2 controls	Reinforce concept of fractions
Fraction puzzle	
Fraction skittles	Introduce concept of dividing whole into parts
<b>Time/Money</b>	
Clock, wooden	Introduce concept of time, hours, and minutes
<b>Geometry</b>	
Geometric solids	Develop concept of shapes
Geometric cabinet	Develop visual memory of shapes, discrimination of form, develops geometry vocabulary
Constructive Triangles	Refine the visual sense, develop the understanding of shapes and their relationship together

<b>Handwriting/Language -</b>		Supports sensitive period for language
<b>Early Language</b>		
Matching cards	Develop skill to match visually	
Labeling cards	Support vocabulary development	
Patterning cards	Develop visual ability to follow pattern and discriminate patterns	
Sequencing cards	Support development of ability to sequence, stimulate oral language development	
Classification cards	Support ability to perceive likenesses/ differences, develop skill to sort items into categories	
<b>Key Sounds</b>		
Sandpaper letters	Recognition of forms by touch and sight; knowledge of sounds of the letters; muscular memory of the forms of the letters, preparation for writing	
<b>Moveable Alphabet</b>		
Moveable alphabet	Analysis of words as a preparation for reading, writing, and spelling	
<b>Mechanical Writing</b>		
Metal insets	Child learns and then strengthens pencil grip while studying geometric designs and color combinations	
<b>Reading</b>		
Phonetic practice readers series	Support child in the phonetic reading process	
<b>Spectrum Materials</b>		
3-letter phonics cards	Develop and support the child in the early decoding process	
4- letter phonics cards		
phonics cards with red vowels and reading strips	Support the child in decoding and isolating the vowel for reading awareness	
puzzle words with sentence strips	Expose the child to words that must be memorized for reading fluency	
phonogram books	Expose the child to the most common irregularities in the English language	
compound words, sets #1, #2	Practice in the study words and their construction	
<b>Grammar</b>		
Grammar symbols w/ box, wooden	Introduce basic concepts of grammar	
Farm, small	Uses objects to identify and develop grammar awareness	

<b>Sensorial</b>		Sensorial materials are designed to help children develop discrimination abilities and
<b>Visual Discrimination</b>		
Pink tower	Discrimination between heights, develops pencil grip, control (also - cubes represent the cubes of the numbers 1-10)	
Brown stair	Discrimination of thickness, expanded vocabulary (thick, thin, broad, narrow) prisms represent squares of numbers 1-10	
Red rods	Develop sequence of progression, introduce concept of long and short	
Knobbed cylinder blocks	Discrimination of dimensions, use of pencil grip, vocabulary) large, small, thick, thin shallow, deep, tall, short)	
<b>Chromatic Discrimination</b>		
Color boxes	Chromatic awareness, vocabulary of colors, discrimination between the shade gradations	
<b>Auditory Sense</b>		
Sound cylinders	Training ears to listen carefully and distinguish between slightly different sounds	
<b>Tactile Materials</b>		
Fabric matching set	Develop tactile sense, further develop concept of textures	
Pressure cylinders set ?	Develop concept of pressures	
Touch tablets w/ box	Develop tactile sense, further develop the concept of rough / smooth	
Rough/smooth boards	Develop tactile sense, preparation for writing	
Baric tablets w/ box	Refine the tactile sense, further develop the concept of weight	
Thermic tablets w/ box	Further develop the tactile sense through temperatures	
<b>Discrimination of Form</b>		
Geometric cabinet	Develops visual memory of shapes, discrimination of form, develops vocabulary of geometry	
Mystery bag w/ small geometric shapes	Develop the concept of distinction through touch	
Monomial cube	Develop the understanding of the cube and power of two	
Binomial cube	Three-dimensional puzzle whose pieces represent the binomial equation $(a + b)^3$	

Trinomial cube	Three-dimensional puzzle whose pieces represent the binomial equation $(a + b + c)^3$
<b>Olfactory Sense</b>	
Smelling bottles set	Develop and refine the sense of smell
<b>Gustatory Sense</b>	
Tasting bottle set	Develop and refine the sense of taste
<b>Cultural</b>	
Flags of North America w/ stand	Identify the flags of North America
Continent pictures	Expose the child to pictures of life from around the world
Continent 3-part cards	To identify and visually discriminate the seven continents
Animals 3-part cards for each continent	To recognize and identify different animals from around the world
Biomes 3-part cards for each continent	Recognize and identify the different biomes of the world
World bird cards	To recognize and identify birds around the world
<b>Geography</b>	
Continent, US, and World maps	Learn to recognize continents, countries, and states
Continent globe (sandpaper)	Introduction to earth as land and water (rough = land, smooth = water)
Continent globe (color-coded)	Introduction to vocabulary and concept of "continent"
Land & water 3-part cards	Learn to recognize and identify different land forms
Land & water forms	
<b>Physical/Earth Science</b>	
Magnet/non-magnetic comparison	Discriminate between magnetic and non-magnetic objects
Living/non-living comparison	Recognize the difference between living and non-living organisms
Planet cards	Recognize the different planets
<b>Zoology</b>	
Parts of the animals 3-part cards	Identify the different parts of each animal through concrete representation
Parts of the animals books	
Parts of the person 3-part cards	
Parts of the animals puzzle	

<b>Botany</b>	
Botany cabinet w/ cards	Develop visual memory of leaf shapes, discrimination of form
Parts of the plants 3-part cards	
Parts of the plants books	
Parts of the flower puzzle	Identify the different parts of a flower

Practical Life	
Pouring activities	Builds strength in thumb and fingers for writing, development of carefulness in movements and concentration
Washing (tables, floor, hands, windows, etc.)	Development of concentration and control of movement, following sequence of directions, preparation for writing
Polishing (silver, shoe, glass, etc.)	Care of self and environment, muscular control, following set pattern to obtain desired results
Dressing frames	Independent care of person