Metro Montessori Infant and Toddler Curriculum Areas of Concentration:

Overview:

In our Montessori Infant and Toddler (birth to 36 months) curriculum, areas of concentration are designed to support the natural development of children during these early years. The focus is on fostering independence, language development, motor skills, and cognitive growth, through a carefully prepared environment that encourages exploration and learning.

Areas of Concentration	Description
1. *Practical Life Skills*	*Care of Self:* Dressing, washing hands, toileting, learning to feed oneself. *Care of the Environment:* Simple cleaning tasks (wiping, sweeping), organizing toys and materials, watering plants. *Grace and Courtesy:* Learning social skills like saying please and thank you, greeting others, taking turns.
2. *Sensorial Development*	• Exploration of materials through the senses: touch, taste, sight, sound, and smell. • Materials include rattles, textured fabrics, nesting objects, sound-making toys, and visual contrast items.
3. *Language Development*	• Exposure to language through conversation, songs, and reading. • Developing vocabulary, listening skills, and early communication (sigh language and verbal). • Introduction to simple phonetic sounds and eventually names of objects.
4. *Cognitive Development*	• Problem-solving through puzzles, sorting objects, matching, and memory games. • Cause-and-effect exploration with materials like stackable toys, shape sorters, and pouring exercises.
5. *Movement and Motor Development*	*Gross Motor:* Crawling, walking, climbing, running, dancing, and balancing activities

	Fine Motor: Hand-eye coordination through manipulating small objects, threading beads, stacking, and using utensils.
6. *Social-Emotional Development*	• Learning to express emotions, develop empathy, and interact with peers and caregivers. • Focus on creating trust, security, and encouraging autonomy.
7. *Art and Creative Expression*	• Simple art activities such as coloring, painting, and playing with clay or dough. • Music and movement through simple instruments, rhythm activities, and dance.
8. *Math Foundations*	• Exposure to quantities, counting, and early math concepts through materials like number puzzles, bead chains, and blocks. • Sensory experiences of size, shape, and order.
9. *Cultural Awareness*	• Exposure to the diversity of the world through pictures, music, food, and stories from various cultures. • Simple geography activities such as naming basic landforms or continents.

Metro Montessori Infant to 36 Months Curriculum: Scope and Sequence:

STAGES	*AGE*	*FOCUS*	*GROSS MOTOR*	*FINE MOTOR*	*LANGAUGE*	*DEVELOPMENT*
Stage 1: Infancy	0-12 months	Sensory development, gross motor development, and attachment	Rolling over, sitting up, crawling.	Grasping objects, transferring items between hands, finger dexterity.	Listening to stories, babbling, responding to sounds.	*Sensorial:* Touching various textures, exploring colors and contrasts *Social-Emotional:* Bonding with caregivers, expressing needs through sounds and actions.
Stage 2: Early Toddler	12-18 months	Movement, independence, and early language	Walking, climbing, pushing, and pulling objects.	Simple hand movements, using spoon or fork, stacking objects.	Naming objects, pointing, simple word recognition.	*Practical Life:* Simple self-care, carrying objects, cleaning up after activities. *Sensorial:* Engaging with sound and texture through instruments, musical toys. *Social-Emotional:* Basic interaction with peers, simple games like peekaboo, imitation of adults.
Stage 3: Toddler	18-24 months	Autonomy, coordination, and basic problem-solving	Running, jumping, climbing stairs.	Sorting, stacking, pouring exercises, opening and closing containers.	Simple sentences, following directions, naming body parts, identifying family members.	*Practical Life:* Helping with dressing, tidying up, pouring water, wiping spills. *Sensorial:* Sorting objects by size, color, and shape. *Math:* Counting objects, recognizing shapes and sizes. *Art:* Drawing with crayons, finger painting, simple crafts. *Social-Emotional:* Learning to share, simple conversations, handling emotions.
Stage 4: Advanced Toddler	24-36 months	Developing independence, complex language,	Coordinating movements, refining walking,	Complex tasks like cutting with scissors,	Complex sentence structures, storytelling,	*Practical Life:* Dressing themselves, setting the table, toileting, washing hands.

	early academic concepts	running, jumping.	threading, beading.	phonetic awareness.	*Cognitive:* Early counting, matching, sorting by categories. *Art and Creative Expression:* Independent artwork, musical rhythm exercises. *Cultural:* Basic understanding of different cultures, festivals, and traditions. *Social-Emotional:* Group interactions, leadership roles in play, expressing empathy

Metro Montessori Art Curriculum: Scope and Sequence (Infants to Lower Elementary)

Overview:

Our Montessori Art Curriculum emphasizes creative expression, hands-on engagement, and an appreciation for beauty through the exploration of various materials and techniques. Art activities are designed to be open-ended and to foster independence, fine motor skills, and cultural awareness.

FOCUS	AGE	GOAL	SKILLS DEVELOPED	ACTIVITIES
Sensory Exploration and Hand-Eye Coordination	Infant 0 to 18 months	To introduce sensory experiences and early hand movements through simple art materials.	• Sensory awareness • Fine motor skills (grasping, holding, manipulating materials). • Hand-eye coordination	• Finger painting with safe, non-toxic paint. • Crayon scribbling on large paper. • Textured paper exploration (sandpaper, fabric, smooth vs. rough) • Tearing and crumpling paper for sensory engagement. • Introduction to color contrasts (black/white, primary colors).
Exploration of Materials and Beginning of Fine Motor Control	Toddler 18 months to 3 years	To encourage free expression through simple art activities while supporting the developing motor control.	• Coordination of small muscles (fine motor skills). • Eye-hand coordination. • Exploration of colors, shapes, and textures. • Spatial awareness (understanding of the paper or workspace boundaries).	• Large crayons or markers for basic drawing and scribbling. • Simple stamping with sponge shapes or natural objects (leaves, corks). • Easel painting with tempera paints. • Clay or dough manipulation (rolling, pinching, flattening). • Gluing pre-cut shapes onto paper for collages. • Watercolor on paper with brushes or sponges. • Sorting and organizing colors or shapes.
Refining Motor Skills, Creativity, and Aesthetic Appreciation	Early Childhood 3 to 6 years	To refine fine motor skills and develop an understanding of artistic elements such as color, form, and composition.	• Fine motor control (more detailed drawing, painting, cutting). • Self-expression through creative choices.	• Drawing and painting with more precision (using brushes, colored pencils, pastels). • Clay modeling to create simple shapes and forms. • Introduce cutting with scissors for collage making. • Mixing colors with paint to understand primary, secondary colors.

			• Recognition of basic art elements (color, shape, line, form). • Understanding of cultural and artistic expressions from different parts of the world.	• Introduction to pattern creation (using stamps, painting, and drawing). • Exploring basic elements of art: line, shape, form, and texture. • Introduction to famous artists and art styles (e.g., Monet, Van Gogh) for inspiration. • Nature-based art: leaf rubbings, flower pressing, and observational drawing of plants.
Artistic Technique, Cultural Art, and Personal Expression	Lower Elementary 6 to 9 years	To introduce more complex techniques, encourage artistic exploration, and integrate art into other areas of learning (history, science, culture).	• Advanced fine motor skills (drawing, sculpting, detailed painting). • Deeper understanding of artistic elements: balance, contrast, emphasis. • Ability to work independently on longer-term art projects. • Enhanced creativity and personal artistic style. • Cultural awareness through global art exploration.	• Experimentation with various media (oil pastels, acrylics, charcoal, watercolors). • Detailed drawing from observation (flowers, animals, landscapes). • Understanding composition and balance in artwork. • Introduction to three-dimensional art: simple sculpture using clay or paper-mâché. • Study of famous artists and art movements (Impressionism, Abstract, Renaissance). • Integration of art with history and geography: creating art inspired by different cultures (Native American pottery, African masks, Chinese brush painting). • Storytelling through art: illustrating a scene from a story or history lesson. • Collaborative group projects: murals, large-scale installations, or community art. • Art and nature: eco-friendly art projects, nature journaling with illustrations.

Key Themes and Progression:

- **Art and Creativity as Self-Expression:** Throughout the Montessori art curriculum, art is not about creating perfect representations but about expressing individuality, emotion, and ideas through creative activities.
- **Integration with Other Subjects:** Art is naturally integrated into subjects like language, culture, history, and science. For example, children may create illustrations to go with their stories, make historical art replicas, or use nature observations as a basis for drawing.
- **Cultural and Environmental Connection:** As students grow, they are introduced to the art of different cultures and the natural world, fostering an appreciation for global traditions and environmental art.

The Metro Montessori Art Curriculum nurtures creative confidence and joy in artistic exploration, ensuring that students develop not only technical skills but also a deep love and appreciation for art. Each stage builds upon the previous, with the child continually growing as both an artist and an engaged, thoughtful individual.

Metro Montessori Cultural Studies Curriculum: Scope and Sequence for Early Childhood Primary Classrooms (Ages 3-6)

Overview:

The Cultural Studies area in our Montessori curriculum for early childhood (ages 3-6) is designed to introduce children to the diversity and richness of human cultures, geography, history, and global awareness. The curriculum fosters respect and appreciation for different cultures, traditions, and environments while helping children understand their place in the world. The sequence of lessons progresses from basic concepts to more complex understandings, encouraging exploration, comparison, and a deep sense of connection to the global community.

Scope and Sequence:

CURRICULUM	SYLLABUS	AGE	MATERIALS	SKILLS DEVELOPED	ACTIVITIES
1. Geography	Introduction to the World	3-4	Globes (sandpaper and colored), continent maps, puzzle maps	Basic understanding of the Earth, introduction to continents and oceans	• Exploring the sandpaper globe to understand land (rough) and water (smooth) surfaces • Introducing the colored globe to identify each continent by shape and location
	Continents and Countries	4-5	Continent boxes, flags, country maps	Recognition of continents, introduction to countries, cultural diversity	• Exploring continent boxes that include artifacts, pictures, and objects from different continents • Matching flags to their corresponding countries and continents • Working with maps to locate and identify different countries within each continent
	Land and Water Forms	5-6	Land and water form trays, land and water form cards, models	Understanding different land and water forms (e.g., island, lake, peninsula, gulf)	• Exploring land and water forms using trays filled with water and models • Matching land and water form cards to the correct form on the trays • Identifying and naming various land and water forms in the environment and on maps
2. History	Understanding Time	3-4	Daily routine charts, timelines of	Basic concepts of time, sequence of daily events	• Creating and discussing daily routine charts to understand the sequence of events in a day

			the child's day, clock models		• Exploring the concept of morning, afternoon, and evening through simple activities • Using clock models to introduce the idea of hours and minutes
	Introduction to Personal and Family History	5-6	Family tree charts, photo timelines, family heritage materials	Understanding personal history, family relationships, and heritage	• Creating a simple family tree with photos and names • Developing a personal timeline using significant events from the child's life • Exploring family heritage through stories, pictures, and objects from the child's cultural background
	The Passage of Time and Historical Timelines	5-6	Long Black Line (cosmic education), timelines of human history, historical artifacts	Understanding the concept of historical time, introduction to early human history	• Exploring the Long Black Line to introduce the concept of time before humans (cosmic education) • Creating simple timelines to represent historical events and the progression of time • Discussing early human history and the development of civilizations using timelines and artifacts
3. Cultural Awareness and Diversity	Introduction to Cultural Diversity	3-4	Cultural objects, clothing, food samples, picture books	Awareness of cultural differences, respect for diversity	• Exploring cultural objects and discussing their uses and significance in different cultures • Introducing traditional clothing from various cultures and discussing their meanings • Sampling foods from different cultures and discussing the ingredients and preparation methods
	Celebrations and Traditions	4-5	Holiday and celebration	Understanding of cultural traditions,	• Learning about different cultural celebrations and holidays around

			cards, cultural music, dance props	appreciation of global celebrations	the world through cards and discussions • Listening to music and exploring traditional dances from various cultures • Participating in classroom celebrations of global holidays and festivals to experience different cultural traditions
	Cultural Practices and Lifestyles	5-6	Cultural practice cards, videos, global lifestyle materials	In-depth understanding of cultural practices, comparison of lifestyles	• Exploring and discussing cultural practices such as food preparation, daily routines, and traditional arts • Watching videos that showcase different ways of life around the world • Engaging in activities that allow children to compare their own lifestyle with those of children in other cultures
4. Ecology and Environmental Awareness	Introduction to the Natural World	3-4	Nature cards, plant and animal models, environmental storybooks	Basic understanding of nature, appreciation of the environment	• Exploring nature cards that depict different plants, animals, and ecosystems • Using plant and animal models to learn about different species and their habitats • Reading storybooks that emphasize the beauty and importance of the natural world
	Caring for the Environment	4-5	Recycling bins, composting tools, nature walk journals	Environmental responsibility, practical care for the environment	• Learning about recycling and participating in classroom recycling activities • Starting a simple composting project to learn about waste reduction and soil enrichment

					• Taking nature walks to observe and document the environment, including plants, animals, and weather patterns
	Global Environmental Issues	5-6	Environmental impact cards, global maps, conservation books	Awareness of global environmental issues, understanding of conservation efforts	• Exploring environmental impact cards that highlight issues like pollution, deforestation, and climate change • Using maps to locate and discuss areas affected by environmental challenges • Reading books and discussing ways to protect the environment, such as conservation efforts and sustainable practices
5. Global Citizenship	Introduction to Community and Global Citizenship	3-4	Community helper cards, global map, storybooks about helping others	Understanding roles in the community, basic concept of global citizenship	• Learning about different community helpers and their roles through cards and discussions • Exploring a global map to introduce the idea of being part of a larger world community • Reading storybooks that emphasize kindness, helping others, and being a good community member
	Understanding Global Interdependence	4-5	Global trade materials, cultural exchange cards, videos	Awareness of global connections, understanding of interdependence	• Discussing how different countries and cultures rely on each other through trade and cultural exchange • Exploring cultural exchange cards that show the movement of goods, ideas, and traditions around the world • Watching videos that depict global connections and interdependence,

				such as how products are made and traded
Active Global Citizenship	5-6	Global issue cards, international organization materials, project planning tools	Understanding global issues, active participation in global citizenship	• Exploring global issue cards that highlight challenges like poverty, education, and health • Learning about international organizations that work to address global issues, such as UNICEF or the Red Cross • Planning and participating in simple projects that contribute to global citizenship, such as a classroom fundraiser for a global cause or writing letters to children in other countries

Conclusion:

The Montessori Cultural Studies curriculum for early childhood provides a comprehensive and sequential approach to understanding the world and its diverse cultures for children ages 3-6. Through hands-on exploration and discovery, children develop an appreciation for cultural diversity, global awareness, and a sense of responsibility as global citizens. This scope and sequence ensure that each child progresses at their own pace, fostering a deep connection to the global community and a lifelong curiosity about the world.

Metro Montessori Language Curriculum: Scope and Sequence for Early Childhood Primary Classrooms (Ages 3-6)

Overview:

Our Language Montessori curriculum for early childhood (ages 3-6) is designed to develop foundational language skills through a variety of hands-on activities and materials. The curriculum emphasizes the natural progression from oral language development to written language, including reading and writing. The sequence of lessons is carefully structured to move from simple to complex, allowing children to build on their previous knowledge and skills as they progress.

Scope and Sequence:

CURRICULUM	*SYLLABUS*	*AGE*	*MATERIALS*	*SKILLS DEVELOPED*	*ACTIVITIES*
1. Oral Language Development	Vocabulary Enrichment	3-4	Classified picture cards, real objects, language-rich environments	Expansion of vocabulary, classification, and naming of objects, oral expression	• Matching objects to pictures • Naming and categorizing objects • Engaging in conversations and storytelling
	Storytelling and Listening Skills	3-4	Storybooks, puppets, language cards	Listening comprehension, sequencing, retelling stories	• Listening to and retelling simple stories • Using puppets to act out stories • Sequencing story events using language cards
	Language Games and Rhymes	3-5	Language games, rhyming cards, sound boxes	Phonemic awareness, recognition of sounds, rhyming	• Playing language games that emphasize sounds and rhymes • Identifying beginning, middle, and ending sounds in words • Engaging in group rhyming activities and songs
2. Phonological Awareness	Introduction to Sounds	3-4	Sound boxes, sandpaper letters	Recognition of Individual sounds, association of sounds with symbols	• Listening to and identifying sounds using sound boxes • Tracing sandpaper letters while vocalizing the corresponding sound • Matching objects to their beginning sounds
	Sound blending and Segmenting	4-5	Moveable alphabet, sound blending cards	Blending sounds to form words, segmenting words into individual sounds	• Building simple words using the moveable alphabet • Practicing sound blending with blending cards

					• Segmenting words into individual phonemes
	Advanced Phonemic Awareness	5-6	Phonogram cards, phonetic object boxes	Recognition of phonograms (e.g., sh, ch, th), decoding and encoding skills	• Working with phonogram cards to identify common sound patterns • Matching objects to words using phonetic object boxes • Practicing advanced sound blending and segmenting with complex words
3. Writing	Pre-Writing Skills	3-4	Metal insets, sandpaper letters, chalkboards	Fine motor skills, pencil grip, tracing	• Tracing shapes with metal insets to develop control • Tracing sandpaper letters to associate movement with sound • Practicing writing on chalkboards and in the sand
	Introduction to Writing	4-5	Moveable alphabet, chalkboards, writing strips	Formation of letters, world building, beginning writing	• Writing letters and simple words using the moveable alphabet • Copying letters and words on chalkboards and writing strips • Beginning journaling with simple sentence formation
	Writing Words and Sentences	5-6	Lined paper, journals, story writing materials	Writing full words and sentences, creative writing, punctuation	• Writing words and sentences on lined paper • Keeping a journal with daily entries • Creating and writing short stories with a focus on punctuation and sentence structure
4. Reading	Introduction to Reading	4-5	Phonetic reading cards, simple phonetic books, moveable alphabet	Decoding simple words, recognizing sight words, reading comprehension	• Reading simple phonetic words and sentences using phonetic reading cards • Practicing reading with simple phonetic books • Building and reading words with the moveable alphabet

	Reading Fluency and Comprehension	5-6	Phonetic and non-phonetic readers, sentence strips, reading games	Fluency in reading, comprehension of texts, recognition of more complex words	• Reading books that gradually increase in complexity • Using sentence strips to practice reading full sentences • Engaging in reading games that reinforce comprehension and fluency
	Advanced Reading Skills	5-6	Storybooks, comprehension questions, language cards	Reading for understanding, answering questions about the text, predicting story outcomes	• Reading and discussing storybook • Answering comprehension questions about the text • Making predictions about story outcomes and discussing them
5. Grammar and Syntax	Introduction to Grammar	5-6	Grammar symbols, sentence analysis charts, grammar boxes	Identification of basic parts of speech (nouns, verbs, adjectives)	• Using grammar symbols to identify parts of speech in sentences • Practicing sentence analysis with charts and grammar boxes • Creating and labeling sentences with various parts of speech
	Exploration of Sentence Structure	5-6	Sentence building cards, complex sentence analysis materials	Understanding subject-verb agreement, sentence construction, punctuation	• Building and analyzing sentences using sentence building cards • Practicing subject-verb agreement in writing exercises • Exploring punctuation through sentence analysis and correction activities
6. Cultural and Environmental Language	Introduction to Cultural Language	3-4	Classified cards, cultural objects, books	Vocabulary related to culture and environment, understanding of different cultures	• Exploring classified cards with cultural themes • Discussing cultural objects and their significance • Reading books that introduce different cultures and environments
	Environmental Language and Nature Study	4-5	Nature cards, nature walk journals,	Vocabulary related to nature, observation skills, classification	• Learning and using vocabulary related to plants, animals, and the environment

		classification activities		• Keeping a nature journal to record observations • Classifying plants, animals, and natural objects using cards and activities
Integration of Cultural Studies with Language	5-6	Cultural stories, research projects, language cards	Research skills, presentation of information, integration of language with cultural studies	• Conducting simple research projects on cultural topics and presenting findings • Reading and discussing cultural stories with a focus on vocabulary and comprehension • Using language cards to explore cultural themes in depth

Conclusion:

Our Montessori Language Curriculum for early childhood provides a comprehensive and sequential approach to building foundational language skills in children ages 3-6. Through the use of tactile and visual materials, children develop a deep understanding of oral and written language, grammar, reading, and writing. This scope and sequence ensure that each child progresses at their own pace, mastering each language skill before moving on to more advanced concepts.

Metro Montessori Math Curriculum: Scope and Sequence for Early Childhood Primary Classrooms (Ages 3-6)

Overview:

Our Math Montessori curriculum for early childhood (ages 3-6) is designed to provide children with a concrete understanding of mathematical concepts through hands-on materials and activities. The curriculum emphasizes the development of a strong foundation in number sense, operations, geometry, measurement, and problem-solving skills. The sequence of lessons is carefully structured to move from simple to complex, allowing children to build on their previous knowledge as they progress.

Scope and Sequence:

CURRICULUM	SYLLABUS	AGE	MATERIALS	SKILLS DEVELOPED	ACTIVITIES
1. Numbers and counting	Introduction to Numbers	3-4	Number rods, sandpaper numerals, spindle boxes	Counting from 1-10, recognition of numerals, understanding quantity, sequencing numerals	• Counting with number rods • Tracing sandpaper numerals • Associating quantities with numerals using the spindle box
	Number Recognition and Writing	4-5	Sandpaper numerals, number cards, bead material	Recognition and writing of numerals 1-10, understanding of zero	• Tracing and writing numerals • Counting and matching activities with beads and number cards • Introduction to zero as a concept
	Advanced Counting and Place Value	5-6	Golden bead material, large number cards	Counting beyond 10, introduction to place value (units, tens, hundreds, thousands)	• Building numbers using golden beads and large number cards • Understanding place value through hands-on activities • Skip counting by 2s, 5s, and 10s
2. Operations (Addition, Subtraction, Multiplication, Division)	Introduction to Addition and Subtraction (Ages 4-5)	4-5	Number rods, golden beads, addition and subtraction strip boards	Simple addition and subtraction with numbers 1-10	• Adding and subtracting using number rods and bead material • Introduction to the concepts of “adding to” and “taking away” • Using the addition and subtraction strip boards for visual and tactile understanding
	Advanced Addition and Subtraction	5-6	Golden beads, stamp game, bead bars	Addition and subtraction with larger numbers, introduction	• Performing dynamic addition and subtraction with golden beads

				to dynamic addition and subtraction (carrying and borrowing)	• Using the stamp game for independent practice • Introduction to word problems involving addition and subtraction
	Introduction to Multiplication and Division	5-6	Bead bars, multiplication and division boards, golden beads	Understanding multiplication as repeated addition, division as sharing or grouping	• Multiplying with bead bars and the multiplication board • Dividing with golden beads and the division board • Exploring basic multiplication and division facts
3. Geometry	Introduction to Geometric	3-4	Geometric cabinet, geometric solids, shape puzzles	Recognition of basic geometric shapes (circle, square, triangle), introduction to geometric solids (cube, sphere, cylinder)	• Sorting and naming shapes using the geometric cabinet • Handling and exploring geometric solids • Matching shapes with corresponding puzzles
	Exploration of Geometric Relationships	4-5	Constructive triangles, geometry stick material	Understanding relationships between shapes, introduction to concepts of congruence, similarity, and symmetry	• Constructing shapes using constructive triangles • Exploring symmetry and congruence with geometry stick material • Introduction to the concept of angles
	Advanced Geometry Concepts	5-6	Advanced geometry cabinet, metal insets	Exploration of more complex geometric shapes (polygons, quadrilaterals), introduction to area and perimeter	• Identifying and classifying polygons and quadrilaterals • Exploring the area using metal insets • Hands-on activities to understand perimeter
4. Measurement	Introduction to Measurement	3-4	Measuring sticks, non-standard units	Understanding length, height, and weight using non-standard units	• Measuring objects using blocks or rods • Comparing lengths and heights

			of measure (e.g., blocks, rods)		• Simple activities to understand weight using balance scales
	Standard Units of Measurement	4-5	Rulers, measuring tapes, scales, graduated cylinders	Introduction to standard units of measurement (inches, centimeters, grams, milliliters)	• Measuring length and height using rulers and measuring tapes • Weighing objects using scales • Introduction to volume using graduated cylinders
	Advanced Measurement Concepts	5-6	Advanced measurement tools, clock, calendar	Time (telling time, understanding hours and minutes), advanced weight and volume measurement	• Telling time using an analog clock • Measuring larger volumes and weights with appropriate tools • Understanding and using a calendar
5. Patterns and Problem-Solving	Introduction to Patterns	3-4	Pattern cards, beads, sequencing activities	Recognizing and creating simple patterns (AB, AAB, ABB)	• Creating patterns with beads and cards • Identifying patterns in the environment • Sequencing activities to reinforce pattern recognition
	Complex Patterns and Sequencing	4-5	Bead chains, pattern boards	Creating and extending more complex patterns, understanding sequences	• Working with bead chains to create complex patterns • Sequencing numbers and shapes • Introduction to patterns in addition and subtraction
	Problem-Solving Activities	5-6	Word problem cards, Montessori math games	Application of math concepts to solve real-world problems, introduction to basic algebraic thinking	• Solving word problems using Montessori materials • Engaging in math games that require strategic thinking • Introduction to basic algebraic concepts through hands-on activities

6. Fractions	Introduction to Fractions	5-6	Fraction circles, fraction insets	Understanding the concept of a whole and parts, introduction to simple fractions (1/2, 1/3, 1/4)	• Exploring fraction circles to understand parts of a whole • Matching fraction insets to corresponding numbers • Simple activities to compare and contrast different fractions

Metro Montessori Music Curriculum: Scope and Sequence (Infants to Elementary)

Overview:

Our Montessori music curriculum follows the developmental stages of the child, integrating sensory exploration, cultural appreciation, and creative expression through sound and rhythm. Music is a key component of the Montessori environment, contributing to language development, mathematical understanding, emotional expression, and fine motor coordination.

FOCUS	AGE	GOAL	SKILLS DEVELOPED	ACTIVITIES
Sensory Exploration and Introduction to Soind	Infant 0 to 18 months	To introduce the child to different sounds, rhythms, and melodies through sensory exploration, laying the foundation for auditory discrimination and musical awareness.	• Auditory discrimination. • Gross motor coordination (movement in response to music). • Early rhythm and beat awareness. • Emotional connection to sound and music.	• Exposure to soft, calming music to develop auditory awareness. • Playing with simple, age-appropriate instruments (e.g., rattles, bells, shakers). • Listening to songs and lullabies sung by caregivers (focus on rhythm, melody). • Sensory exploration with materials that make gentle noises (fabric with bells, soft crinkling objects). • Participating in gentle body movements or rocking to rhythmic sounds. • Introducing the child to high and low sounds using objects like xylophones or toy keyboards.
Rhythm, Movement, and Simple Musical Concepts	Toddler 18 months to 3 years	To develop rhythm and movement coordination while introducing simple musical concepts through playful, hand-on activities.	• Fine and gross motor skills through instrument play and movement. • Basic rhythm and beat recognition. • Social interaction through group music activities. • Language development through songs and repetition.	• Clapping and tapping to simple rhythms using hands or percussion instruments (e.g., tambourines, maracas, hand drums). • Singing songs with repetitive lyrics and simple melodies. • Participating in movement activities that pair actions with music (e.g., walking to the beat, dancing). • Introduction to simple music vocabulary (loud/soft, fast/slow). • Exploring pitch through songs that involve high and low sounds.

				• Group music time, where children explore instruments together (bells, xylophones, rhythm sticks).
Introduction to Musical Instruments, Rhythm Patterns, and Music Appreciation	Early Childhood 3 to 6 years	To foster deeper understanding of rhythm, melody, and pitch while encouraging creative expression and appreciation for music from various cultures.	• Auditory discrimination between different instruments and sounds. • Recognition of basic music notation and rhythm patterns. • Motor coordination and timing through group music activities. • Cultural appreciation through exposure to diverse musical traditions.	• Singing songs that explore more complex rhythms and melodies, including songs in other languages. • Introduction to musical instruments like glockenspiels, hand bells, and rhythm instruments. • Learning rhythm patterns (clapping, tapping, stepping in time). • Simple music notation (introduction to quarter notes, half notes). • Exposure to classical music, folk songs, and music from different cultures. • Dancing and body movement to different genres of music. • Storytelling with music (music that represents different emotions or actions). • Group performances (simple rhythm ensembles with drums, shakers, and xylophones).
Music Theory, Instrument Exploration, and Performance Skills	Lower Elementary 6 to 9 years	To introduce basic music theory, expand musical repertoire and encourage performance and creative composition.	• Basic understanding of music theory and notation. • Group coordination through ensemble playing and singing. • Fine motor skills through instrument playing (e.g., recorder, percussion). • Creative thinking through	• Introduction to reading and writing simple music notation (staff, notes, rests, and time signatures). • Playing tuned percussion instruments (glockenspiels, hand bells) and recorders. • Singing in rounds and harmonies, exploring pitch variation and vocal range. • Exploring different genres of music (classical, jazz, folk, etc.). • Understanding musical dynamics (forte, piano) and tempo (allegro, adagio). • Beginning composition using simple notation to create original melodies.

			composition and improvisation. • Enhanced focus and discipline through music practice and performance.	• Group performances, such as rhythm ensembles or simple choral singing. • Listening and responding to classical music (e.g., Vivaldi's Four Seasons). • Incorporating cultural music studies into broader academic work (studying the music of specific countries, composers, or time periods).
Advanced Musical Concepts, Performance, and Composition	Upper Elementary 9 to 12 years	To deepen the understanding of music theory, expand instrumental proficiency, and foster creativity through composition and performance.	• Advanced music literacy and theoretical knowledge. • Instrumental proficiency and dexterity. • Group collaboration in ensemble performances. • Creativity and originality through composition. • Cultural and historical understanding of music's role in society.	• Advanced music theory concepts (key signatures, scales, intervals, chords). • Reading and writing complex musical compositions. • Instrumental proficiency (continued practice with recorders, percussion, introduction to string instruments like the ukulele). • Exploration of world music and historical music styles (Baroque, Classical, Romantic). • Group music ensembles and performances (rhythm bands, simple orchestral arrangements). • Creating original compositions using notation and digital tools (introduction to music composition software). • Study of famous composers and their influence on modern music. • Incorporating music into other subjects (history of music in relation to world events, math patterns in music).

Key Themes and Progression:

- **Sensory Exploration to Formal Music Theory:** The curriculum starts with sensory-based musical exploration for infants and progresses to the formal study of music theory, composition, and performance in the elementary years.
- **Cultural and Historical Connections:** Music from various cultures and historical periods is integrated into lessons, fostering a global understanding and appreciation for diversity in musical expression.

- **Creativity and Self-Expression:** Throughout the curriculum, students are encouraged to explore their creativity through musical improvisation, composition, and personal expression.
- **Performance and Collaboration:** Group performances and music ensembles are a key part of the curriculum, fostering teamwork, cooperation, and the joy of shared musical experiences.

The Metro Montessori Music Curriculum supports the holistic development of children by nurturing their creative, emotional, intellectual, and social growth. As students progress through each stage, they build a strong foundation in music that supports not only artistic expression but also critical thinking, concentration, and cultural appreciation.

Metro Montessori Practical Life Curriculum: Scope and Sequence for Early Childhood Primary Classrooms (Ages 3-6)

Overview:

Our Practical Life area in the Montessori curriculum for early childhood (ages 3-6) is designed to help children develop independence, coordination, concentration, and a sense of responsibility. The activities in this area are closely tied to real-life tasks, enabling children to practice and refine essential motor skills while building confidence and self-discipline. The sequence of lessons progresses from simple to complex, allowing children to develop mastery at their own pace.

Scope and Sequence:

CURRICULUM	SYLLABUS	AGE	MATERIALS	SKILLS DEVELOPED	ACTIVITIES
1. Preliminary Exercises	Introduction to the Classroom Environment	3-4	Child-sized furniture, trays, mats, small containers	Familiarization with the environment, basic handling of materials, order and routine	• Learning to carry a tray, basket, and objects carefully • Rolling and unrolling a mat • Setting up and cleaning up a workspace
	Grace and Courtesy	3-4	Classroom setting, role-play scenarios	Social interactions, polite behavior, respect for others	• Practicing greetings and introductions • Waiting for a turn, interrupting politely • Practicing using polite words like “please” and “thank you”
	Care of the Environment	3-4	Cleaning cloths, brooms, dustpans, plant care tools	Responsibility, respect for the environment, independence	• Dusting shelves, sweeping the floor, using a dustpan • Watering and caring for plants • Organizing and maintaining a tidy environment
2. Basic Practical Life Skills	Care of Self	3-4	Dressing frames, handwashing station, grooming tools	Independence in personal care, fine motor skills, self-awareness	• Practicing dressing skills with buttoning, zipping, lacing frames • Washing hands, brushing teeth, and combing hair • Learning to put on and take off shoes, socks, and coats

	Pouring, Spooning, and Transferring	3-4	Small pitchers, bowls, spoons, tongs, tweezers, trays	Coordination, concentration, precision	• Pouring liquids from a pitcher to a glass or between containers • Spooning grains or beans from one bowl to another • Using tongs or tweezers to transfer objects, such as cotton balls or beads
	Cutting and Folding	4-5	Child-safe scissors, paper, folding cloths	Fine motor skills, hand-eye coordination, precision	• Practicing cutting along lines on paper • Folding cloths or napkins into halves, thirds, or quarters • Cutting and folding paper to make simple crafts
3.Advanced Practical Life Skills	Food Preparation	4-5	Child-safe knives, cutting boards, fruits and vegetables, juicers, utensils	Independence, coordination, practical skills	• Cutting fruits and vegetables, such as slicing bananas or chopping cucumbers • Juicing oranges or lemons • Spreading butter or jam on bread, preparing simple snacks
	Care of the Classroom Pets and Plants	4-5	Watering cans, feeding bowls, pet care items	Responsibility, empathy, care for living things	• Feeding and caring for classroom pets • Watering plants, pruning leaves, observing plant growth • Leaning about the needs of living organisms
	Polishing and Cleaning	4-5	Polishing cloths, polish, mirrors, silver, brass	Attention to detail, care for the environment, fine motor skills	• Polishing silver, brass, or wood objects • Cleaning mirrors and glass surfaces • Practicing careful and precise movements in polishing activities

4. Complex Practical Life Activities	Sewing and Weaving	5-6	Needle and thread, fabric, weaving looms, yarn	Fine motor skills, concentration, creativity	• Sewing simple stitches on fabric • Creating small projects like sewing on buttons or making simple fabric crafts • Weaving patterns using a small loom and yarn
	Table Setting and Etiquette	5-6	Child-sized dishes, utensils, napkins, tablecloths	Social skills, responsibility, independence	• Learning to set a table with dishes, utensils, and napkins • Practicing meal-time etiquette, including how to serve food and pass dishes • Cleaning up after meals, including washing dishes and putting away utensils
	Advanced Cooking and Baking	5-6	Mixing bowls, measuring cups, baking ingredients, kitchen tools	Independence, coordination, following directions	• Measuring and mixing ingredients for simple recipes • Preparing and baking items such as cookies, bread, or muffins • Practicing safety in the kitchen, including proper use of tools and understanding heat
5. Social and Environmental Responsibility	Community Service Projects	5-6	Community resources, project planning tools	Social responsibility, teamwork, empathy	• Practicing in projects such as food drives or community clean-ups • Planning and executing a small service project with peers • Discussing the importance of helping others and caring for the community
	Sustainability and Recycling	5-6	Recycling bins, composting tools, reusable materials	Environmental awareness, responsibility, practical skills	• Sorting recyclables into appropriate bins • Learning about composting and contributing to a classroom compost bin

				• Reusing materials for crafts and projects, understanding the importance of sustainability
Leadership and Mentoring	5-6	Peer teaching tools, leadership activities	Leadership, communication, empathy	• Older children mentoring younger peers in practical life activities • Leading group activities on projects • Practicing communication and teamwork skills in a leadership role

Conclusion:

Our Montessori Practical Life curriculum for early childhood provides a comprehensive and sequential approach to developing essential life skills in children ages 3-6. Through hands-on activities, children build independence, coordination, concentration, and a strong sense of responsibility. This scope and sequence ensures that each child progresses at their own pace, mastering practical life skills that are foundational for success in both academic and everyday life.

Metro Montessori Science Curriculum: Scope and Sequence for Early Childhood Primary Classrooms (Ages 3-6)

Overview:

Our Science area in the Montessori curriculum for early childhood (ages 3-6) is designed to foster a sense of wonder and curiosity about the natural world. The curriculum emphasizes hands-on exploration, observation, and discovery, allowing children to develop foundational scientific knowledge and skills. The sequence of lessons progresses from basic concepts to more complex understandings, encouraging children to explore, classify, and investigate their environment.

Scope and Sequence:

CURRICULUM	SYLLABUS	AGE	MATERIALS	SKILLS DEVELOPED	ACTIVITIES
1. Introduction to Life Sciences	Living and Non-Living	3-4	Classified cards, real-life objects, living/non-living sorting trays	Understanding the difference between living and non-living things, basic classification	• Sorting objects into living and non-living sorting trays • Discussing the characteristics of living things (growth, movement, reproduction) • Exploring nature to find examples of living and non-living things
	Plant and Animal Identification	4-5	Picture cards, models, of plants and animals, nature walks	Identification of common plants and animals, basic taxonomy	• Matching picture cards with real plants and animals • Learning the names and characteristics of common plants and animals • Observing plants and animals during nature walks and documenting findings
	Basic Botany and Zoology	5-6	Leaf and flower puzzles, animal classification cards, parts of a plant/animal charts	Understanding basic plant and animal biology, parts of plants and animals	• Exploring the parts of a plant using leaf and flower puzzles • Learning about the parts of animals using animal classification cards and charts • Engaging in activities to classify plants (e.g., trees, flowers, grasses) and animals (e.g., mammals, birds, insects)

2. Earth Sciences	Introduction to Land, Water, and Air	3-4	Globe, land and water forms model, air experiments	Understanding the basics of land, water, and air, spatial awareness	• Exploring the globe to identify land and water • Working with land and water forms (e.g., island, lake, mountain, valley) • Simple experiments to demonstrate the presence and properties of air
	Weather and Seasons	4-5	Weather charts, season cards, thermometers, rain gauge	Observation of weather patterns, understanding the cycle of seasons	• Recording daily weather on a weather chart • Discussing the characteristics of each season and matching season cards to appropriate activities • Measuring temperature with a thermometer and rainfall with a rain gauge
	Earth Materials: Rocks, Soil, and Minerals	5-6	Rock and mineral samples, soil types, magnifying glasses	Identification and classification of rocks, soil, and minerals	• Examining and classifying different types of rocks and minerals • Exploring soil samples and discussing their different properties (sand, clay, loam) • Conducting simple experiments to observe the composition and characteristics of different earth materials
3.Physical Sciences	Introduction to Physical Properties	3-4	Objects of various sizes, shapes, and weights; balance scales	Understanding physical properties such as size, shape, and weight	• Sorting objects by size, shape, and weight • Using balance scales to compare the weight of different objects • Exploring the concepts of light and heavy, big and small through hand-on activities
	Exploring the Five Senses	3-4	Sensory materials (e.g., smelling jars, tasting bottles), sensory cards	Awareness and understanding of the five senses	• Engaging in sensory activities that involve smell, taste, touch, sight, and hearing

					• Matching sensory cards to corresponding objects or experiences • Discussing how each sense helps us understand the world around us
	Introduction to Simple Machines	5-6	Models of simple machines (e.g., lever, pulley, inclined plane), everyday objects	Basic understanding of how simple machines work	• Exploring how levers pullets and inclined planes make work easier • Identifying simple machines in the environment (e.g., scissors as a lever, a ramp as an inclined plane) • Conducting experiments to observe the effects of simple machines on force and movement
4. Astronomy	Introduction to the Solar System	4-5	Solar system model, planet cards, space books	Basic understanding of the solar system, identification of planets	• Exploring a model of the solar system to identify planets and their orbits • Matching planet cards to their correct positions in the solar system • Reading books about space and discussing the features of each planet
	Earth and its Place in the Universe	5-6	Earth and space models, globe, day and night chart	Understanding Earth's rotation and orbit, the concept of day and night	• Exploring how Earth's rotation causes day and night using a globe and light source • Discussing Earth's orbit around the sun and how it affects the seasons • Engaging in activities to understand Earth's place in the larger context of the universe
	Exploring the Moon and Stars	5-6	Moon phases model, star charts, constellation cards	Understanding the moon's phases, identifying stars and constellations	• Observing and modeling the phases of the moon • Identifying common constellations using star charts and constellations cards

					• Discussing the differences between stars, planets, and ither celestial bodies
5. Environmental Science and Ecology	Introduction to Ecology	4-5	Habitat models, ecosystem cards, plant and animal models	Basic understanding of ecosystems, habitats, and food chains	• Exploring different habitats (e.g., forest, desert, ocean) using models and cards • Discussing how plants and animals interact within ecosystems • Learning about food chains and the roles of producers, consumers, and decomposers
	Conservation and Sustainability	5-6	Recycling bins, composting tools, reusable material	Awareness of environmental responsibility, understanding of conservation	• Sorting materials into recycling and compost bins • Discussing the importance of reducing, reusing, and recycling
	Human Impact on the Environment	5-6	Pollution models, environmental impact cards, conservation books	Understanding human impact on the environment, importance of stewardship	• Exploring how pollution affects air, water, and land • Discussing ways to reduce human impact on the environment • Participating in projects that promote environmental stewardship, such as planting trees or cleaning up a local area

Conclusion:

Our Montessori Science curriculum for early childhood provides a comprehensive and sequential approach to developing a deep understanding of the natural and physical world for children ages 3-6. Through hands-on exploration and discovery, children develop foundational scientific knowledge and skills that will support their future learning. This scope and sequence ensure that each child progresses at their own pace, fostering a lifelong curiosity and appreciation for science and the environment.

Metro Montessori Sensorial Curriculum: Scope and Sequence for Early Childhood Primary Classrooms (Ages 3-6)

Overview:

Our Sensorial area in the Montessori curriculum for early childhood (ages 3-6) is designed to refine the child's senses and develop cognitive skills through hands-on activities. The curriculum focuses on isolating and enhancing sensory experiences—such as sight, sound, touch, taste, and smell—enabling children to understand and categorize the world around them. The sequence of lessons progresses from simple to complex, building a foundation for abstract thinking and problem-solving.

Scope and Sequence:

CURRICULUM	SYLLABUS	AGE	MATERIALS	SKILLS DEVELOPED	ACTIVITIES
1. Visual Discrimination	Introduction to Visual Discrimination	3-4	Pink Tower, Brown Stair, Red Rods	Discrimination of size, length, and volume; fine motor skills	• Building and arranging the Pink Tower from largest to smallest • Stacking and sequencing the Brown Stair from thickest to thinnest • Laying out the Red Rods in order from longest to shortest
	Advanced Visual Discrimination	4-5	Knobbed Cylinders, Knobless Cylinders, Color Tablets (Box 1 and 2)	Refinement of visual perception, gradation of size and color	• Matching and sequencing Knobbed and Knobless Cylinders based on size • Using Color Tablets to Match and grade colors from darkest to lightest • Exploring shades and tints by arranging color tablets in a gradient
	Complex Visual Discrimination	5-6	Color Tablets (Box 3), Geometric Solids, Constructive Triangles	Complex visual analysis, geometric understanding, color gradation	• Exploring the full spectrum of color with Box 3 Color Tablets, including subtle shades • Identifying and matching geometric solids to their corresponding bases • Constructing various geometric shapes using the Constructive Triangles
2. Tactile Discrimination	Introduction of Tactile Discrimination	3-4	Touch Boards, Fabric Box, Rough, and	Sense of touch, recognition of texture	• Exploring different texture with Touch Boards, matching by feel • Feeling and matching fabrics of varying textures in the Fabric Box

			Smooth Boards		• Distinguishing between rough and smooth surfaces using the Rough and Smooth Boards
	Advanced Tactile Discrimination	4-5	Baric Tablets, Thermic Tablets	Discrimination of weight and temperature	• Weighing and matching Baric Tablets by lightness and heaviness • Exploring Thermic Tablets to match and identify different temperatures by touch • Using blindfolds to heighten the sense of touch and improve discrimination
	Complex Tactile Discrimination	5-6	Stereognostic Bags, Mystery Bag	Advanced tactile perception, stereognostic sense (recognizing objects by touch)	• Identifying objects hidden in a Mystery Bag using only the sense of touch • Matching shapes and objects from a Stereognostic Bag without sight • Engaging in games and activities to improve stereognostic skills
3. Auditory Discrimination	Introduction to Auditory Discrimination	3-4	Sound Cylinders, Silence Game	Auditory awareness, sound matching, listening skills	• Shaking and matching Sound Cylinders based on volume and pitch • Engaging in the Silence Game to develop heightened listening and focus • Listening to and identifying common sounds in the environment
	Advanced Auditory Discrimination	4-5	Bells, Rhythm Instruments	Pitch recognition, musical rhythm, auditory memory	• Matching and grading the Montessori Bells by pitch • Reproducing rhythms with simple percussion instruments • Playing listening games to identify differences in pitch and rhythm

	Complex Auditory Discrimination	5-6	Advanced Bell Activities, Tone Blocks	Complex auditory analysis, musical ear development	• Playing and sequencing the Bells to create simple melodies • Differentiating between high and low tones using Tone Blocks
4. Olfactory and Gustatory Discrimination	Introduction to Smell and Taste	3-4	Smelling Jars, Tasting Bottles	Recognition and differentiation of scents and tastes	• Smelling jars to match and identify common scents like lemon, cinnamon, or vanilla • Tasting and identifying different flavors (sweet, sour, salty, bitter) with Tasting Bottles • Engaging in games to enhance awareness of smell and taste
	Advanced Olfactory and Gustafory Skills	4-5	Scent Matching Cards, Advanced Tasting Activities	Enhanced scent and taste discrimination, sensory memory	• Matching scents to corresponding images or objects using Scent Matching Cards • Exploring more complex flavors and combination with advanced tasting activities • Participating in sensory experiences that involve both smell and taste
	Complex Olfactory and Gustatory Discrimination	5-6	Mystery Scent and Taste Tests, Scent and Taste Sorting Games	Complex scent and taste identification, integration of sensory experiences	• Identifying and categorizing scents and tastes in mystery tests • Sorting and matching activities that involve combining scent and taste recognition • Engaging in sensory integration games that challenge and refine olfactory and gustatory skills
5. Stereognostic Sense	Introduction to Stereognostic Sense	3-4	Geometric Solids in a Bag, Familiar Objects in a Bag	Recognition of shapes and objects through touch, spatial awareness	• Identifying geometric solids hidden in a bag using only the sense of touch • Matching objects by feel without using sight

				• Exploring shapes and forms through tactile experiences
Advanced Stereognostic Activities	4-5	Mystery Bag with more complex objects, Tactile Matching Games	Enhanced spatial reasoning, tactile memory	• Identifying and categorizing more complex objects hidden in a Mystery Bag • Engaging in tactile matching games that require advanced recognition skills • Practicing identifying objects based on shape, size, and texture through touch
Complex Stereognostic Challenges	5-6	3D Puzzles, Advanced Tactile Activities	Advanced spatial and tactile awareness, problem-solving	• Solving 3D puzzles that require strong stereognostic skills • Engaging in advanced tactile activities that involve recognizing and assembling objects by touch • Exploring the relationship between touch and visual perception through integrated activities

Conclusion:

Our Montessori Sensorial curriculum for early childhood provides a comprehensive and sequential approach to refining the senses of children ages 3-6. Through the use of specialized materials and carefully designed activities, children develop a heightened awareness and understanding of their environment. This scope and sequence ensure that each child progresses at their own pace, mastering sensory discrimination and laying the foundation for future cognitive development.

Metro Montessori Elementary Scope & Sequence (1st-6th Grade)

CURRICULUM	AGE GROUP	SYLLABUS	ACTIVITIES
1. Language Arts	1st-3rd Grade Lower Elementary	Phonemic Awareness and Reading	• Develop fluency in reading using Montessori phonics materials, moving from simple decodable books to more complex texts. • Introduce reading comprehension strategies, such as summarizing, sequencing, and identifying man ideas.
		Writing	• Begin with simple sentence structure, progressing to paragraph formation. • Focus on grammar lessons: nouns, verbs, adjectives, and articles using Montessori Grammar Symbols.
		Spelling and Vocabulary	• Use Montessori spelling and word study lessons, focusing on phonograms, world families, and compound words.
		Cursive Writing	• Begin cursive handwriting practice using sandpaper letters and move to written word practice.
	4th-6th Grade Upper Elementary	Reading Comprehension	• Focus on analyzing texts for deeper meaning, critical thinking, and inferencing. • Introduce classic literature, poetry, and nonfiction texts.
		Writing and Grammar	• Progress to multi-paragraph essays, narrative writing, expository texts, and persuasive writing.
		Creative Writing	• Encourage creative expression through storytelling, journaling, and petry
2. Mathematics	1st-3rd Grade Lower Elementary	Number Sense and Place Value	• Introduce Montessori golden bead material to explore place value (units, tens, hundreds, thousands). • Use Stamp Game and Bead Bars to reinforce addition, subtraction, and early multiplication/division concepts.
		Introduction to Geometry	• Study basic geometric shapes, congruence, similarity, and equivalence using Montessori geometry materials (Geometric Solids, Metal Insets).
		Fractions and Decimals	• Introduce fractions through sensorial fraction circles, simple equivalence, and operations with fractions.
	4th-6th Grade Higher Elementary	Multiplication and Division	• Work on long multiplication and division using the checkerboard and Division Board materials. • Introduce abstract operations as students move toward greater independence.

		Geometry	• Explore more advanced geometric concepts: area, volume, angles, and measurements using Montessori geometry materials like the Geometric Cabinet.
		Fractions, Decimals, and Percents	• Extend fraction work into decimals and percentages, with operations and real-world application projects.
3. Science	1st-3rd Grade Lower Elementary	Physical Science	• Simple machines (lever, pulley, inclined plane) and their uses • Study the three states of matter, magnetism, and electricity basics.
		Biology	• Begin with fundamental needs of living organisms (food, shelter, reproduction) using classification cards. • Study the plant and animal kingdoms, simple classification (vertebrates vs. invertebrates), life cycles, and habitats.
		Earth Science	• Explore weather, seasons, landforms, and basic astronomy (solar system).
	4th-6th Grade Upper Elementary	Physics and Chemistry	• Explore more complex physical science topics such as energy, force, motion, and introductory chemistry (atoms, elements, periodic table).
		Biology	• Study human anatomy and systems (digestive, circulatory, respiratory). • Explore ecosystems, biodiversity, and environmental science, diving deeper into classification (kingdoms, phyla, species).
		Astronomy and Earth Science	• Study the solar system in depth, including the Earth's rotation, orbits, phases of the moon, and the importance of the sun. • Explore rock cycles, volcanoes, earthquakes, and geology.
4. Geography and History (Cosmic Education)	1st-3rd Grade Lower Elementary	Cultural Geography	• Begin with the Montessori "Great Lessons" that introduce the story of the universe, the coming of life, and the needs of humans. • Learn about continents, countries, and cultures through Montessori puzzle maps and continent studies.
		History	• Study ancient civilizations, timelines of life on Earth, and the development of early human societies using Montessori historical timelines.
	4th-6th Grade Upper Elementary	Cultural Geography	• Explore the interdependence of people, global trade, ecosystems, and economic geography. • Investigate climate zones, biomes, and their effect on human development.
		History	• Delve deeper into historical periods: Ancient Egypt, Greece, Rome, Middle Ages, Renaissance.

			• Study American history, indigenous cultures, and early world civilizations with an emphasis on cause and effect, cultural influence, and technological advances.
5. Practical Life Skills	1st-3rd Grade Lower Elementary	Everyday Life	• Emphasis on care of self, environment, and others. Learn basic cooking, gardening, and household skills. • Grace and courtesy lessons to develop social skills, empathy, and conflict resolution.
	4th-6th Grade Higher Elementary	Independence and Leadership	• Engage in community service, classroom management, and real-life problem-solving projects. • Organize and lead classroom activities, develop time management, and self-directed learning skills
6. Art and Music	1st-3rd Grade Lower Elementary	Art	• Explore basic art techniques (drawing, painting, sculpting). Study colors, shapes, and art from various cultures.
		Music	• Introduction to musical notation, rhythm, and instruments. Montessori Bells and tone bars are used to explore pitch and scales.
	4th-6th Grade Higher Elementary	Art	• Develop advanced artistic skills: perspective, color theory, and mixed media projects. Study art history and artists from various time periods.
		Music	• Engage in music theory, compositions, and advance instrument study. Exlore various musical genres and the history of music.
7. Physical Education	1st-6th Grade Lower and Upper Elementary	Movement and Coordination	• Develop motor skills, coordination, and teamwork through a variety of physical activities: yoga, dance, running, and cooperative games.
		Health Education	• Teach basic concept of nutrition, body systems, and the importance of physical exercise.

Conclusion:

Our Montessori Elementary scope and sequence foster the child's intellectual curiosity, independence, and love of learning, aligning with Montessori's principles of hands-on learning, multi-age groupings, and individualized pacing. The curriculum is designed to promote holistic development across academics, practical life, and social-emotional growth.

FERNWOOD MONTESSORI SCHOOL

Curriculum Map for the Elementary Program

	LOWER ELEMENTARY	UPPER ELEMENTARY
Developmental Characteristics	6–9 year old: Entering the Second Plane of Development The child develops the 'reasoning mind' and their imagination. Students are interested in morality and social justice. They explore the community, outside family and friends, and are socially-motivated.	9–12 year old: Continuing the Second Plane of Development During this continued stage of development, students remain interested in the exploration of the wider society. Self-reflection is deeper. The 9–12 year old begins to detach themselves from the home environment and has continued interest in morality. Peers remain at the forefront of their social experience.
Practical Life	Developing skills: manners, cooperation, time management, accountability, independence, leadership Activities include: community meetings, conflict resolution, cooking, sewing, knitting, classroom jobs, partner work	Developing skills: community awareness, time management, increasing responsibility, advocacy in self and others, reasoning skills Activities include: classroom jobs, meetings, cooking, community service, note-taking skills, interpersonal management, planning of going out trips
Language (dependent on developmental stage and academic need)	Listening & speaking: listening and engaging actively, communicating feelings and thoughts, speaking clearly through oral presentations Reading & literature: phonological awareness, decoding strategies, building reading fluency and comprehension, analyzing literature, creative writing, poetry, identify and classify word study correctly (antonyms, synonyms, compound words, etc) Research & Writing: use age-appropriate mechanics, evaluate own writing, learn to edit and proofread, demonstrate correct pencil grip, cursive writing practice, basic paragraph structure, resources for finding information (dictionary, reference material) Grammar and sentence analysis: learn and identify all nine parts of speech, understand functions of words, identify subject/predicate/direct object of	Listening & speaking: leadership in a group setting, asking meaningful questions, listening attentively to peers Reading & Writing: comprehension, literature circles (further analysis), creative writing, formal essay writing (expository, narrative, descriptive, persuasive), vetting and citing sources, use of graphic organizers Word study: the study of root words and etymology, concepts such as analogies, personification, hyperbole, and idioms Grammar and sentence analysis: correct usage of writing mechanics, understand different types of sentences (complex/compound), identify additional modifiers in sentences such as adverbial modifiers, appositives, and attributives

	sentences, word study	
Mathematics (dependent on developmental stage and academic need)	Quantity & Numbers: Identify and form values 1-100 (and beyond), number sequencing, greater than/less than, odd/even, identify and understand place value (to the millions) Squaring and Cubing Fractions: Introduction to the concept of fractions, addition and subtraction of like-denominator fractions, equivalence, simplification of fractions, introduction to decimal fractions Memorization Work: Memorization, through repetition with hands-on material, of math facts in addition, subtraction, multiplication, and division, laws of arithmetic (commutative, associative, distributive) Measurement: Introduction to types of measurement, concepts, history, uses for measurement, graphing	Operations & Numbers: abstract whole number operations (addition/multiplication, subtraction/division), expanded notation, comparisons, rounding, estimating Multiples & Divisibility: Greatest common factor, lowest common multiple, prime and composite numbers, rules of divisibility for 2, 3, 4, 5, 6, 8, 9, 10 Fractions & Decimals: review concepts, equivalence, proper and improper fractions, mixed fractions, reducing/simplifying fractions, operations with fractions and decimals, comparing and ordering, understanding relationships between fractions and decimals Ratio & Percent: ratios as fractions or decimals, percents, percent of a number, understanding proportions, conversion of percents Squares, Cubes, & Roots: exploring binomials and trinomials, cubing of binomials/trinomials, concrete exploration of square root and cube root, writing through abstraction
Geometry (dependent on developmental stage and academic need)	Concepts of point/line/surface/solid, introduction to plane and solid geometry, shape nomenclature, creating patterns, shape attributes, exploring shape / size / symmetry / congruency of 2D and 3D shapes, the study of lines, angles, and triangles, beginning area work (end of third-year)	Review of plane figures and solids (including line work), advanced classification: identifying shapes by sides and angles, area and perimeter of all polygons, tessellations, polygons, similar/congruent/equivalent shapes, work with triangles, Pythagorean theorem (using materials), Volume (and calculation of formulas), geometric constructions (with compass and straight-edge)
INTEGRATED CULTURAL CURRICULUM (ALSO KNOWN AS THE COSMIC CURRICULUM)		
Science (life science, physical & earth science)	*Begin to conduct factual research (learning to ask questions)* Zoology: taxonomy (classification of animals), external parts of animals, types of vertebrates and invertebrates, living/nonliving characteristics, life cycles Botany: first knowledge of plant kingdom, needs of plants (experiments), parts of the plant, types of leaves, roots, stems, flowers, fruits, and seeds, life	Zoology: tree of life exploration, classification and phylogeny of animals, vital functions of animals, adaptations, food chains, connections between organisms and environments Human Physiology: introduction to cells, genetics, systems of the human body (skeletal, respiratory, muscular, digestive, nervous)

	cycles Scientific Method, introduction to chemistry (basic physical and chemical reactions), properties of matter, layers of the earth, space and solar system	Botany: Advanced vital functions of plants, genetic makeup and classification of plants Chemistry, Earth/Space, Physical: atomic structure, molecules, periodic table research and experimentation, conservation of matter and energy, Formation of the universe, fundamental forces, relationships between the earth, sun and moon, earth's processes (hydrosphere, lithosphere, atmosphere), simple machines
Geography	Map skills: identification of continents, countries, capitals, oceans, rivers, mountains, major land/water forms, cardinal directions, globe work (imaginary lines, equator, latitude, longitude), hemispheres Biome: characteristics of flora and fauna within biomes, types of biomes, needs of people within each biome Plate tectonics, the work of air and water	Elaborating and expanding concepts learned in Lower Elementary, students can now add to their knowledge with the exploration of additional research Cycles: the rock cycle, the water cycle, carbon cycle, nitrogen cycle Studies in ecology: introduction and review of biomes, food chains, food webs, decomposer, soil composition Other topics include layers of the ocean, advanced classifications of land/water forms (i.e. glacier, canyon, coasts, moraine), climate zones, the study of a country or state, Washington state geography
History	Developing the concept of time (past, present, and future), graphing time, calendar work (days of the week, months of the year, decade / century / Millenium, seasons, year and its parts), world creation stories, BC/AD - BCE/CE timelines, Timeline of Life (begins with the Hadean through Neozoic and is typically integrated with science and geography studies), Fundamental Needs of Humans and the relationship to biomes and cultures, Clock of Eons (research and exploration of eras and eons), origins of holidays and celebrations, early humans introduction	Review concepts learned in Lower Elementary about the Timeline of Life and era research Early Humans research (Hominid research, human migration paths), ancient civilizations (Mesopotamian, Egyptian, Roman, Greek), archeology exploration, Indigenous peoples history, Washington state history, American history and the westward expansion, the Middle Ages and important scientists, and explorers