



## Montessori Noosa Cycle 2 (6-9) Curriculum At a Glance

*(This overview shows what is possible for a highly motivated child. Actual coverage varies with readiness.)*

	First Year	Second Year	Third Year
<b>Maths</b>	<ul style="list-style-type: none"> <li>concept &amp; process in + and –</li> <li>numeration; number hierarchy</li> <li>skip counting: sequence of numbers; bridging the decades;</li> <li>memorisation of + facts</li> <li>introduction to fractions</li> <li>history of money; coin values and recognition</li> <li>word problems with simple facts</li> <li>simple surveys, graphs; tallying</li> <li>cardinal vs. ordinal numbers</li> </ul>	<ul style="list-style-type: none"> <li>concept &amp; process in – and x</li> <li>magic zeros; rounding; estimation</li> <li>skip counting: powers of numbers</li> <li>memorisation of – and x facts; decanomial (table of Pythagoras)</li> <li>&gt;/&lt; fractions; +/– of like fractions</li> <li>addition of coins; making change among denominations of notes</li> <li>word problems: large numbers</li> <li>venn diagrams</li> <li>interpreting data from various types of graphs</li> </ul>	<ul style="list-style-type: none"> <li>concept &amp; process in x and ÷</li> <li>memorisation of x and ÷ facts</li> <li>multiples and factors</li> <li>parentheses, order of operations.</li> <li>equivalence of unlike fractions; +/– of unlike fractions</li> <li>introduction to decimals; +/– of decimals to millionth place</li> <li>making change: coins and notes</li> <li>mixed word problems</li> <li>collecting data; random vs. non-random outcomes</li> </ul>
<b>Geometry &amp; Measurement</b>	<ul style="list-style-type: none"> <li>basic concepts: point, line, surface and solid</li> <li>naming/sorting geometric solids</li> <li>study of circles</li> <li>study of lines: types and parts of lines; positions of one straight line; relations of two straight lines</li> <li>history of measurement</li> <li>direct comparison activities for length, mass, volume and temperature</li> </ul>	<ul style="list-style-type: none"> <li>study of angles: types and parts of angles; angles formed by a transversal; +/– of angles; pairs of angles and their relationships</li> <li>measurement of angles using Montessori &amp; common protractor</li> <li>types and parts of plane figures, including 7 triangles &amp; polygons</li> <li>using constructive triangles to create various quadrilaterals</li> <li>activities with non-standard units of measure: length, mass, volume</li> </ul>	<ul style="list-style-type: none"> <li>detailed study of triangles</li> <li>study of quadrilaterals (parallelogram, trapezoid, rhombus, rectangle, square)</li> <li>study of polygons (pentagon through decagon)</li> <li>tessellation; tangrams; symmetry</li> <li>study of similarity, congruence, and equivalence</li> <li>activities with standard units of measurement: length, mass, volume, temperature; estimation</li> </ul>
<b>Language</b>	<ul style="list-style-type: none"> <li>phonics: short and long vowels, consonant digraphs; word families; silent e rule; non-phonetic sight words</li> <li>daily silent reading; guided reading</li> <li>word study: classifying words; compound words; suffixes; alphabetical order</li> <li>mechanics: full stops, capitals</li> <li>writing: steps in the process (think, write, share, revise, edit, publish); narrative based on personal experience; poetry; conferencing with peers; hand-sewn binding of published books</li> <li>memorising poetry and dramatic texts for recitals; voice projection</li> <li>cursive: tripod grip; lower case</li> </ul>	<ul style="list-style-type: none"> <li>phonics: blends, vowel digraphs; spelling rules (doubling final consonants, “drop the e”); other phonograms; sight words</li> <li>daily silent reading; shared reading</li> <li>word study: syllabication, suffixes, prefixes, antonyms, synonyms; homophones</li> <li>mechanics: full stops, quotation marks, commas; semi-colons</li> <li>writing: narrative; poetry; friendly letters; simple reports; editing; conferencing with peers; hand-sewn binding of self-published books and reports</li> <li>memorising poetry and dramatic texts for recitals; voice projection</li> <li>cursive: capitals; numbers; fluency</li> </ul>	<ul style="list-style-type: none"> <li>phonics: sight words; plural endings; spelling tests</li> <li>daily silent reading: chapter books; literature circles</li> <li>word study: synonyms, homophones, homonyms, homographs, guide words; Greek and Latin roots; thesaurus</li> <li>mechanics: apostrophes for contraction and possession; colons; hyphen; editing</li> <li>writing: fiction (setting, character, plot, mood); paragraphs; poetry; business letters; persuasive essay; multi-paragraph reports; writing directions for multi-step tasks; hand-sewn binding of own books</li> <li>poetry and dramatic recitals</li> <li>print handwriting &amp; calligraphy</li> </ul>
<b>Grammar</b>	<ul style="list-style-type: none"> <li>the function of the “noun family”: article, adjective, noun</li> <li>the function of the verb</li> <li>introduction to sentence structure: “asking” vs “telling” sentences; concept of a sentence as a complete thought</li> </ul>	<ul style="list-style-type: none"> <li>function of prepositions</li> <li>function of adverbs</li> <li>function of conjunctions</li> <li>function of pronouns</li> <li>function of interjections</li> <li>writing phrases or sentences from parts of speech sequences</li> <li>the four types of sentences and appropriate end punctuation</li> </ul>	<ul style="list-style-type: none"> <li>parts of speech review activities</li> <li>study of style: analysing and graphing simple texts for frequency of parts of speech</li> <li>sentence analysis: simple sentences with predicate, subject and object; indirect object; adverbial extensions</li> </ul>
<b>Biology</b>	<ul style="list-style-type: none"> <li>external parts of five classes of vertebrates: fish, amphibians, reptiles, birds, and mammals</li> <li>external parts of “plants”: seaweed, moss, ferns, pine trees, flowering plants, fungi</li> <li>first knowledge of 5 kingdoms</li> <li>first classification: living vs. non-living vs. dead</li> </ul>	<ul style="list-style-type: none"> <li>internal body functions of five vertebrates; dissection or models</li> <li>internal body functions of seaweeds, plants and fungi</li> <li>guided research into animals and plants of choice</li> <li>parts of a flower/leaf/root</li> <li>first classification: vertebrates vs. invertebrates</li> </ul>	<ul style="list-style-type: none"> <li>advanced botany nomenclature; classifying local plant species</li> <li>taxonomy: detailed classification of animals/plants according to a 5 kingdom model; parts of insects</li> <li>research and guided report writing with Q&amp;A game; detailed report on an insect; study of class pets or species found nearby</li> </ul>

<b>History</b>	Impressionistic lessons presented each year to all students to give grounding and context for student inquiry: (May be presented to 6-9 students by 9-12 students) <ul style="list-style-type: none"> <li>• 1<sup>st</sup> Great Lesson: The Universe Story</li> <li>• 2<sup>nd</sup> Great Lesson: The Coming of Life</li> <li>• 3<sup>rd</sup> Great Lesson: The Coming of Humans</li> <li>• 4<sup>th</sup> Great Lesson: The History of Written Language</li> <li>• 5<sup>th</sup> Great Lesson: The History of Counting</li> </ul>		
	<ul style="list-style-type: none"> <li>• concepts of time: noticing natural changes (day / night, seasons etc); shipwreck/ early humans story; class diary; class calendar</li> <li>• graphing child's family ages</li> <li>• passage of years: making a personal timeline of child's life</li> <li>• history / derivation of names of days of week and months of year</li> <li>• Simple tenses: concepts of past, present and future</li> <li>• creations stories of other cultures</li> </ul>	<ul style="list-style-type: none"> <li>• telling time on analog clocks; time in different cultures; 24-hour clock</li> <li>• study of fundamental human needs of various cultures</li> <li>• parts of a year (semester, trimester etc); no. of days per month</li> <li>• Roman numerals</li> <li>• Gregorian calendar; measuring time in centuries; BC / AD or CE / BCE timeline; research into historical events from timeline</li> <li>• creations stories of other cultures</li> </ul>	<ul style="list-style-type: none"> <li>• Long Black Line (overview of earth history vs. human existence)</li> <li>• "Clock of Eons" (detailed look at Earth's history)</li> <li>• am / pm notation; time zones</li> <li>• Time Line of Life: detailed research into Paleozoic, Mesozoic, Cenozoic and Neozoic Eras</li> <li>• vertical studies of fundamental needs, including history of lighting and student-led research</li> <li>• first research into ancient civilisations e.g. Egypt, Australia</li> </ul>
<b>Geography &amp; Physical Science</b>  3 year cycle:	<ul style="list-style-type: none"> <li>• history of maps; projection issue; reading maps; compass points</li> <li>• puzzle maps: 7 continents and oceans; basic knowledge of globe</li> <li>• land &amp; water forms; locating major world land &amp; water forms</li> </ul>	<ul style="list-style-type: none"> <li>• pin maps: political boundaries of continents; memorising countries, capitals, flags of world</li> <li>• parts of a flag; study of flags</li> <li>• beginning research on countries</li> <li>• Earth and the solar system</li> </ul>	<ul style="list-style-type: none"> <li>• economic geography: linkages for clothing, bread, meat; money; taxes; imports/ exports; product maps; Chart of Interdependence</li> <li>• advanced land &amp; water forms</li> <li>• research on countries of choice</li> </ul>
	<ul style="list-style-type: none"> <li>• Work of Water: water cycle, erosion, water as power source</li> <li>• parts of a river</li> <li>• physics of sound</li> </ul>	<ul style="list-style-type: none"> <li>• Sun &amp; Earth: reason for seasons</li> <li>• Nature of the Elements: nature of solids, liquids and gases</li> <li>• physics of light</li> </ul>	<ul style="list-style-type: none"> <li>• Composition of the Earth: layers of earth; rock cycle, formation/ parts of mountains, volcanoes; tectonic plates; continental drift</li> <li>• physics of magnetism</li> </ul>
<b>Practical Life</b>	<ul style="list-style-type: none"> <li>• grace and courtesy lessons</li> <li>• class meetings and discussions</li> <li>• birthday celebrations; daily sharing of appreciations</li> <li>• fruit and vegetable cutting for snack preparation</li> <li>• daily classroom cleaning chores</li> <li>• interrupting &amp; concentration brainstorming and role plays</li> </ul>	<ul style="list-style-type: none"> <li>• grace and courtesy lessons</li> <li>• class meetings and discussions</li> <li>• birthday celebrations; daily sharing of appreciations</li> <li>• fruit and vegetable cutting for snack preparation</li> <li>• daily classroom cleaning chores</li> <li>• interrupting &amp; concentration brainstorming and role plays</li> </ul>	<ul style="list-style-type: none"> <li>• class meetings and discussions</li> <li>• birthday celebrations; daily sharing of appreciations</li> <li>• fruit and vegetable cutting for snack preparation</li> <li>• daily classroom cleaning chores</li> <li>• interrupting &amp; concentration brainstorming and role plays</li> <li>• planning class excursions</li> </ul>
<b>Music &amp; Drama</b>	<ul style="list-style-type: none"> <li>• interpretive reading cards</li> <li>• readers' theatre: interpreting extracts from literature</li> <li>• class signing: rounds, folk songs</li> <li>• annual class musical production</li> <li>• music history and appreciation; daily listening to classical music</li> <li>• music theory with the Montessori bells or tone bars</li> </ul>	<ul style="list-style-type: none"> <li>• interpretive reading cards</li> <li>• readers' theatre: interpreting extracts from literature</li> <li>• class signing: rounds, folk songs</li> <li>• annual class musical production</li> <li>• music history and appreciation; daily listening to classical music</li> <li>• music theory with the Montessori bells or tone bars</li> </ul>	<ul style="list-style-type: none"> <li>• interpretive reading cards</li> <li>• readers' theatre: interpreting extracts from literature</li> <li>• class signing: rounds, folk songs</li> <li>• annual class musical production</li> <li>• music history and appreciation; daily listening to classical music</li> <li>• music theory with the Montessori tone bars</li> </ul>
<b>Art</b> 3 year cycle	<ul style="list-style-type: none"> <li>• illustrating narratives in writing</li> <li>• illustrating expository reports</li> <li>• study of colour</li> <li>• collage: paper, tiles</li> <li>• sculpture and ceramics: clay, paper maché, wire, recycled items</li> </ul>	<ul style="list-style-type: none"> <li>• illustrating narratives in writing</li> <li>• illustrating expository reports</li> <li>• self-portraits</li> <li>• painting and watercolour</li> <li>• 7 elements of design: line, shape, form, colour, value, texture, space</li> </ul>	<ul style="list-style-type: none"> <li>• illustrating narratives in writing</li> <li>• illustrating expository reports</li> <li>• art appreciation, history, artists</li> <li>• mosaic, textiles</li> <li>• 7 principles of design: emphasis, balance, contrast, movement, rhythm, pattern, variety, harmony</li> </ul>
<b>Technology &amp; Design</b>	<ul style="list-style-type: none"> <li>• designing /making furniture or machines from cardboard</li> <li>• photography</li> <li>• accessing/ using library catalogue</li> </ul>	<ul style="list-style-type: none"> <li>• designing /making furniture or machines from cardboard</li> <li>• photography; photo editing</li> <li>• accessing/ using library catalogue</li> <li>• using iPad for researching topics not available in library books</li> </ul>	<ul style="list-style-type: none"> <li>• keyboarding (<i>Type to Learn Cloud</i>)</li> <li>• user accounts and passwords</li> <li>• saving files (Mac OS)</li> <li>• creating/ using a file structure</li> <li>• word processing with <i>Pages</i></li> <li>• Internet search tools</li> </ul>
<b>PE &amp; Health</b>	<ul style="list-style-type: none"> <li>• cooperative games</li> <li>• nutrition and hygiene</li> <li>• growing vegetables and fruits</li> <li>• game skills/ gymnastics</li> </ul>	<ul style="list-style-type: none"> <li>• cooperative games</li> <li>• nutrition and hygiene</li> <li>• growing vegetables and fruits</li> <li>• game skills/ gymnastics</li> </ul>	<ul style="list-style-type: none"> <li>• cooperative games</li> <li>• nutrition and hygiene</li> <li>• growing vegetables and fruits</li> <li>• game skills/ gymnastics</li> </ul>