

An Outline of the Montessori Upper Elementary Curriculum

This in an impressionistic aid for parents, not a literal scope and sequence!

CMS Curriculum	Level Four	Level Five
Math	<ul style="list-style-type: none"> • Review of multi-digit x and - • Numeration: Place value / expanded notation • Rounding / averaging • Divisibility • Multiples (LCM) • Factors (GCF) • Roman Numerals: Part 1 & 2 • Intro: notation of squares and cubes • Numerical decanomial • Transformation – square to binomial • Expressions with parentheses • Advanced fractions • Decimals • Intro: Symmetry • Slides/rotations/flips • Graphing • Concept of variables 	<p>Introduction to the Following:</p> <ul style="list-style-type: none"> • Prime factorization • Square of Pythagoras • Ratios/proportion/probability • Equivalency between ratios/fractions and percentages • Integers (all operations) • Range/median/mode/mean • Symmetry • Venn Diagrams • Advanced fractions • Squaring • Graphing • Pre Algebra Sequence
Geometry	<ul style="list-style-type: none"> • Mixed applications w/lines and rays • Relationships of angles on the plane • Study of the 7 “Triangles of Reality” • 6 types of quadrilaterals • Graphing quadrilaterals • Intro: congruency, similarity, equivalency • Study of perimeter • Vertical angles are equal • Sum of angles of triangles and quadrilaterals • Nomenclature of the circle • Concept of the square as a unit of measure 	<ul style="list-style-type: none"> • Advanced study of congruency, similarity, equivalency • Equivalence studies • Concept of the square as a unit of measure of area • Pythagorean Theorem: area of polygons • Nomenclature of the circle • Sum of angles • Study of the circle including area and circumference • Concept of volume
Language And Grammar	<ul style="list-style-type: none"> • Advanced study of noun family • Advanced word study • Sentence structure: simple texts and study of style • The 4 types of sentences • Current Events • Literary circles (novel studies) • Spelling • Expository writing: sentences and paragraphs • Writing mechanics • Poetry: syllabication • Cursive Penmanship 	<ul style="list-style-type: none"> • Advanced study of preposition, conjunction, and interjection • Sentence analysis: all adverbial modifiers • Writing: essays, non-fiction (incl. autobiography with organization, editing, revision) • Poetry: metrics, accent • Literary circles (novel studies) • Spelling • Current Events • Metaphors, idiomatic expressions
History	<ul style="list-style-type: none"> • Significance of the appearance of humanity • Human evolution • California State history • Westward expansion 	<ul style="list-style-type: none"> • Paleo-American history • Exploration • Colonization • United States history (1620-1900)

<p>Geography, Physical & Life Science, and Chemistry</p>	<ul style="list-style-type: none"> • Mapping skills • Simple machines • Magnetism • Electricity • Imperial measurement (linear, weight, capacity, temperature, time) • Ecosystems • Food chains – interdependencies • Intro to density • Intro to cells • Intro to water, carbon, nitrogen cycles 	<ul style="list-style-type: none"> • Advanced mapping skills • Metric measurement (linear, weight, capacity, temperature, time) • Intro to weather • Review of water, carbon, nitrogen cycles • Health and Nutrition • Body systems: skeletal, muscular, digestive, circulatory, respiratory, • Matter, elements, periodic table • The Story of the Universe with experiments • Cells
<p>Personal Development</p>	<ul style="list-style-type: none"> • Time management skills • Punctuality • Setting and prioritizing reasonable goals • Role-model responsibilities • Planning and implementation • Leadership – community meetings • Public speaking • Giving/receiving constructive criticism between peers • Being assertive without being aggressive • Working cooperatively in teams • Being responsible for one's belongings and one's behavior • Being respectful to oneself, one's peers and the environment 	
<p>Practical Life</p>	<ul style="list-style-type: none"> • Computer application • Stock Market Game • Credit card activity • Research skills • Intergenerational Program – Sunshine Care • Running community meetings • Special events planning • Ecology Programs – caring for Monte Vista Road • Cleaning the environment • Cooking • Animal care • Related field trips 	