

**Bloomington Montessori Mathematics Curriculum Scope and Sequence**  
Ages 3-12

Updated 2017

	Number Sense			Computation		Geometry		Additional Concepts	
	Numeration	Decimal System	Other Number Concepts	Operations	Algebra	Concepts of Geometry	Functions of Geometry	Measurement	Money
<b>Primary (ages 3-6)</b>	<ul style="list-style-type: none"> <li>one-to-one correspondence</li> <li>linear counting 0 to 1,000</li> <li>numeral and quantity correspondence 0 to 9,999</li> <li>skip counting</li> <li>numeral formation</li> <li>counting on</li> </ul>	<ul style="list-style-type: none"> <li>introduction of place value</li> <li>composition of numbers from 0 to 9,999</li> <li>exchanging within the decimal system</li> </ul>	<ul style="list-style-type: none"> <li>identifying and naming fractions</li> <li>building fractions</li> <li>fractions equal to one whole</li> <li>subitizing</li> <li>one-to-one correspondence</li> <li>time</li> <li>money</li> <li>measurement</li> <li>bar graphs</li> <li>numeral and quantity comparison/order</li> <li>squares and cubes</li> <li>math fact automaticity</li> <li>combinations to ten</li> </ul>	<ul style="list-style-type: none"> <li>addition with counters</li> <li>static and dynamic addition</li> <li>static and dynamic subtraction</li> <li>static and dynamic multiplication</li> <li>division</li> <li>addition of fractions with like denominators</li> </ul>	<ul style="list-style-type: none"> <li>impressionistic algebra</li> <li>binomial</li> <li>trinomial</li> </ul>	<ul style="list-style-type: none"> <li>discrimination of length, height, size and shape</li> <li>names of surfaces (shapes)</li> <li>classification of shapes</li> <li>names of solids (3D forms)</li> </ul>	<ul style="list-style-type: none"> <li>exploration of combining shapes</li> <li>binomial and trinomial exploration</li> <li>formation of surfaces (shapes)</li> </ul>	<ul style="list-style-type: none"> <li>linear</li> <li>weight (balance)</li> <li>time</li> <li>area of a shape</li> <li>units of measure</li> </ul>	<ul style="list-style-type: none"> <li>identification of currency</li> <li>value of currency</li> </ul>
<b>Elementary (ages 6-12)</b>	<ul style="list-style-type: none"> <li>history of numbers and math</li> <li>numeral and quantity correspondence past one million</li> <li>concept of zero</li> <li>numeral formation</li> <li>skip counting</li> <li>quantity and numeral comparison/order</li> </ul>	<ul style="list-style-type: none"> <li>place value from millionths to millions and beyond</li> <li>quantity correspondence with large numbers</li> <li>exchanging within the decimal system</li> </ul>	<ul style="list-style-type: none"> <li>skip counting</li> <li>negative numbers</li> <li>greatest common factor</li> <li>estimation and rounding</li> <li>percentages</li> <li>squares and cubes</li> <li>math fact automaticity (all four operations)</li> <li>word problems</li> <li>real-life application opportunities</li> <li>multiplication and division of integers</li> <li>Four Laws of Euclid</li> <li>other base systems</li> <li>fractions equal to one whole</li> <li>fraction identification/building</li> <li>lowest common denominator</li> <li>fractions equivalency and reducing</li> <li>conversion of fractions (proper/improper/mixed)</li> <li>cancelling and factoring</li> <li>converting a fraction to a decimal</li> <li>graphs and tables</li> <li>creative strategizing/math flexibility</li> </ul>	<ul style="list-style-type: none"> <li>static and dynamic addition and subtraction with large numbers</li> <li>multiplication with one-digit and multi-digit multipliers</li> <li>division with one-digit and multi-digit divisors</li> <li>all four operations with fractions (like and unlike denominators)</li> <li>all four operations with decimals</li> <li>converting a decimal to a percentage</li> </ul>	<ul style="list-style-type: none"> <li>squaring and cubing</li> <li>binomial, trinomial, hands-on equations</li> <li>algebraic addition and subtraction</li> </ul>	<ul style="list-style-type: none"> <li>point</li> <li>line</li> <li>surface</li> <li>solid</li> <li>parts of a line</li> <li>orientation of a line</li> <li>relationships of lines</li> <li>types of lines</li> <li>parts of an angle</li> <li>types of angles</li> <li>relationships of angles</li> <li>identification of surfaces (shapes)</li> <li>classification and definition of surfaces</li> <li>irregular polygons</li> <li>identification of solids (3D forms)</li> <li>lines of symmetry</li> <li>constructive triangles</li> </ul>	<ul style="list-style-type: none"> <li>combinations of shapes and forms</li> <li>measurement of an angle</li> <li>area of a surface</li> <li>volume of a prism</li> <li>similarity, congruence, equivalence</li> <li>changing the orientation of a shape</li> <li>perimeter</li> <li>Pythagorean theorem</li> <li>Euclid's theorem</li> </ul>	<ul style="list-style-type: none"> <li>linear</li> <li>weight (balance)</li> <li>time</li> <li>area of a shape</li> <li>units of measure (conversion)</li> </ul>	<ul style="list-style-type: none"> <li>identification of currency</li> <li>value of currency</li> <li>addition, subtraction, multiplication, division with currency</li> <li>word problems/real-life application</li> <li>making change</li> </ul>