

## Alcuin Montessori School Curriculum Benchmarks

Benchmarks reflect base expectations. Children can advance according to their developmental readiness, which is the premise of the Montessori philosophy including quality and level of work completed. Teachers utilize a multi-sensory approach, which addresses all learning styles and creates the optimal learning environment. Montessori offers a unique learning environment and specialized materials for students to accomplish these goals.

<b>Curriculum</b>	<b>Primary (ages 3 – 6)</b>	<b>Junior Elementary (ages 6 – 9)</b>	<b>Senior Elementary (ages 9 – 12)</b>	<b>Middle School (ages 12 – 14)</b>
<b><i>Life Skills / Development</i></b>	<ul style="list-style-type: none"> <li>▪ Grace and Courtesy: manners, proper introductions, how to respectfully interrupt, cooperation, patience, listening skills, learning to speak softly and quietly</li> <li>▪ Lengthening attention span</li> <li>▪ Ease of transition from one activity to another</li> <li>▪ Observation skills - observe others or a lesson</li> <li>▪ Completion of task - development of work cycles</li> <li>▪ Respect for materials and environment</li> <li>▪ Care of Self - basic needs (bathroom, nose blowing, hand washing)</li> <li>▪ Gross Motor Control</li> <li>▪ Fine Motor Control</li> <li>▪ Care of environment &amp; materials</li> <li>▪ Sense of order</li> <li>▪ Independence</li> <li>▪ Community awareness</li> <li>▪ Environmental awareness (global)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Self-motivated and curious</li> <li>▪ Responsible and accountable</li> <li>▪ Independent learner</li> <li>▪ Respect for environment</li> <li>▪ Ability to comprehend what is heard</li> <li>▪ Focus on work for 30-45 minutes</li> <li>▪ Sequence of three directions</li> <li>▪ Conflict resolution/problem solving skills</li> <li>▪ Respectful of self and others</li> <li>▪ Explore abstract world</li> <li>▪ Reasoning</li> <li>▪ Moral sense</li> <li>▪ Imaginative</li> <li>▪ Connection with facts, thoughts, and memories</li> <li>▪ Daily work plan and objectives</li> </ul>	<ul style="list-style-type: none"> <li>▪ Social beings</li> <li>▪ Explore abstract world</li> <li>▪ Search for reasons</li> <li>▪ Moral sense</li> <li>▪ Capacity for imagination</li> <li>▪ Discover connections</li> <li>▪ Begin building groundwork for empathy</li> <li>▪ Recognize and value differences in others</li> <li>▪ Compassion for others and self</li> <li>▪ Reflect on, and appreciate, strengths and challenges</li> <li>▪ Begin creating a sense of identity and code of values</li> <li>▪ Begin thinking about their place in the world</li> <li>▪ Personal responsibility</li> <li>▪ Respect for people and environment</li> <li>▪ Begin to identify and employ individual learning style</li> <li>▪ Continue building on conflict resolution and problem solving skills</li> <li>▪ Independent thinker and learner</li> </ul>	<ul style="list-style-type: none"> <li>▪ Need to understand adult world</li> <li>▪ Development of personal identity</li> <li>▪ Values sense of community belonging</li> <li>▪ Values personal dignity and social justice</li> <li>▪ Greater responsibility and problem-solving ability at home and school</li> <li>▪ Developing skills in: care of self and community, leadership, work management, entrepreneurialism, financial management and independence, food preparation</li> </ul>

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<b><i>Sensorial</i></b>	<ul style="list-style-type: none"> <li>▪ Refinement of sense perception</li> <li>▪ Sense properties include: visual, auditory, chromatic, tactile, gustatory, stereognostic, kinesthetic, olfactory, thermic, baric, balance/equilibrium</li> </ul>			

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<b>Language</b>	<ul style="list-style-type: none"> <li>▪ Reading readiness: letter/sound recognition</li> <li>▪ Sandpaper letters &amp; moveable alphabet</li> <li>▪ Development of phonetic reading skills</li> <li>▪ Phonograms, sight words, puzzle words</li> <li>▪ Introduction to grammar</li> <li>▪ All lessons are taught in English</li> </ul>	<ul style="list-style-type: none"> <li>▪ Language Tower skills: (compound words, suffix, prefix, antonym, synonym, homophone, homonym, homographs, capitalization, abbreviation, apostrophe, comma, quotation marks, classification, ABC order, guide words, dictionary and thesaurus)</li> <li>▪ Nine parts of speech: article, adjective, noun, pronoun, verb, adverb, conjunction, preposition, interjection; derivations, etymology</li> <li>▪ Sentence types: statement, exclamation, question and command</li> <li>▪ Punctuation: period, comma, apostrophe, question mark, exclamation point, quotation marks</li> <li>▪ Five sentence paragraph beginning with a topic sentence</li> <li>▪ Fluency: expression, accuracy and meaning in reading</li> <li>▪ Grade level comprehension</li> <li>▪ Spelling: phonograms, digraphs, diphthongs, blends, short and long vowels, applying spelling to sentences and paragraphs</li> <li>▪ Decoding and comprehension strategies</li> <li>▪ Phonics</li> <li>▪ Sight word vocabulary</li> <li>▪ Guided reading</li> <li>▪ Chapter books</li> <li>▪ Literary forms</li> <li>▪ Sequence order in a story</li> <li>▪ Syllables</li> <li>▪ Glossary and reference skills</li> </ul>	<ul style="list-style-type: none"> <li>▪ Spelling patterns, prefixes and suffixes, etymology</li> <li>▪ Grammar and punctuation skills: identify nine parts of speech, subject and predicate, sentence elements and construction, classify sentences, complete and simple subject and predicate, mechanics of writing (proper punctuation, including use of commas, periods, ellipses, quotation marks and apostrophes; proper paragraph indentation and spacing, including in dialog)</li> <li>▪ Vocabulary, reading comprehension and interpretation</li> <li>▪ Fluent independent reading skills in a variety of literary genres: myths, legends, autobiography, historical fiction, folk tales, biography, realistic fiction, fables, fantasy, science fiction, story elements, point of view</li> <li>▪ Outlines</li> <li>▪ Paragraph using a topic sentence, sequencing and conclusion</li> <li>▪ Resource materials for research</li> <li>▪ All lessons are taught in English</li> </ul>	<ul style="list-style-type: none"> <li>▪ Spelling, vocabulary skills, common spelling errors, vocabulary comprehension and development</li> <li>▪ Development of skills in close reading, comprehension, and critical thinking</li> <li>▪ Literary interpretation (elements and genres of literature)</li> <li>▪ Support analyses and reflection with textual evidence</li> <li>▪ Grammar and punctuation skills: identify and use phrases and clauses, use all punctuation correctly including ellipses and dashes, active and passive verbs, verbals, conditional and subjunctive moods</li> <li>▪ Research skills: discern quality of sources, evaluate, compare, organize, outline and synthesize material, document sources, library and internet research</li> <li>▪ Collaborative discussion skills</li> <li>▪ Presentation skills</li> <li>▪ All lesson are taught in English</li> </ul>

		<ul style="list-style-type: none"><li>▪ Book report</li><li>▪ Author and illustrator</li><li>▪ Research and information skills</li><li>▪ Introduction to outlines</li><li>▪ All lesson are taught in English</li></ul>		
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<b>Writing</b>	<ul style="list-style-type: none"> <li>▪ Finger dexterity and strength are developed through working with Practical Life, Sensorial and other manipulative exercises</li> <li>▪ Trace Sandpaper Letters and Numerals with fingers - cursive</li> <li>▪ Use Metal Insets</li> <li>▪ Cursive handwriting</li> <li>▪ Pincer grip</li> <li>▪ Chalkboard, unlined, lined paper</li> <li>▪ Create stories &amp; record</li> <li>▪ Begin learning upper case in Extended Day</li> <li>▪ Punctuation introduce period, capitalize first letter, etc.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Cursive</li> <li>▪ Montessori cursive handwriting booklet</li> <li>▪ Write short assignments neatly in copy book</li> <li>▪ Ability to copy information correctly</li> <li>▪ Write summary, daily journal topic, book report, letter, short story, poetry</li> <li>▪ Sentences and paragraphs, creative writing, letters and invitations, original stories and poems, research reports</li> <li>▪ Letter, paragraph, chapter story, journals, descriptive, persuasive, narrative, expository, poem, invitation</li> <li>▪ Writing process: prewriting, drafting,</li> <li>▪ Bibliography</li> </ul>	<ul style="list-style-type: none"> <li>▪ Cursive handwriting, corrective spelling, capitalization and punctuation, poetry, stories, letters, reports, journal, book report, personal narratives, descriptive paragraphs</li> <li>▪ Summaries</li> <li>▪ Persuasive or opinion essay</li> <li>▪ Bibliographies, use of primary and secondary sources</li> <li>▪ Note-taking</li> <li>▪ Brainstorming, rough draft, editing, publishing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Poetry: free verse and variety of forms, short fiction, memoir, book review, response papers, summaries, thesis-driven persuasive and interpretive essays</li> <li>▪ Figurative language and literary devices: alliteration, assonance, hyperbole, onomatopoeia, simile, metaphor, rhyme, meter, allegory</li> <li>▪ Evaluation of audience, purpose and effectiveness, tone, mood and voice</li> <li>▪ Develop variety in transitions, precision of language, sensory language</li> <li>▪ Plan, revise, edit, rewrite, publish</li> </ul>

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<b>Mathematics</b>	<ul style="list-style-type: none"> <li>▪ Preparation for math begins in the Practical Life and Sensorial areas</li> <li>▪ Intro to numbers: quantity and symbol recognition with numbers 1 - 10</li> <li>▪ Linear Counting: 11 - 9999</li> <li>▪ Decimal system: quantity and symbol recognition</li> <li>▪ Operations - static and dynamic: addition, multiplication, subtraction, division</li> <li>▪ Abstraction/abstract concepts</li> </ul>	<ul style="list-style-type: none"> <li>▪ Addition, subtraction, multiplication and division facts using various Montessori materials</li> <li>▪ Numeric order, place value</li> <li>▪ Telling time using analog and digital clock</li> <li>▪ Identify, name, add and subtract fractions with like denominators, equivalence, identify numerator and denominator, convert improper and mixed fractions</li> <li>▪ Geometric shapes, solids and symmetry</li> <li>▪ Area of rectangles, perimeter</li> <li>▪ Word problems</li> <li>▪ Addition and subtraction with exchanges, multiplication with multi-digit numbers, division with remainders</li> <li>▪ Graphs (collect and represent data)</li> <li>▪ Mental math and estimation</li> <li>▪ Measurement: length, weight, volume, temperature, standard and metric</li> <li>▪ Decimals: tenths/hundredths</li> <li>▪ Skip counting and multiples 1-10</li> <li>▪ Coin and bill combinations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Word problems</li> <li>▪ Order of operations</li> <li>▪ Mathematical properties</li> <li>▪ Traditional and alternative algorithms to solve addition, subtraction, multiplication and division problems with whole numbers</li> <li>▪ Measurement: length, weight, volume, temperature, and elapsed time, standard and metric</li> <li>▪ Geometry: properties of 2- and 3-dimensional figures; area, perimeter, volume; concepts of shape and volume; types of angles and angle measurement</li> <li>▪ Collect, record and graph data</li> <li>▪ Logic problems</li> <li>▪ Addition, subtraction, multiplication and division of whole numbers, fractions and decimals; ratio, proportion, percent</li> <li>▪ Integers</li> <li>▪ Probability</li> <li>▪ Variables</li> </ul>	<ul style="list-style-type: none"> <li>▪ Variables and patterns</li> <li>▪ Geometric similarity</li> <li>▪ Comparing and scaling: ratios, percents &amp; fractions</li> <li>▪ Positive &amp; negative numbers</li> <li>▪ Linear relationships</li> <li>▪ Volume &amp; surface area</li> <li>▪ Probability &amp; expected value</li> <li>▪ Describing variability and comparing groups</li> <li>▪ Linear &amp; inverse variation</li> <li>▪ The Pythagorean Theorem</li> <li>▪ Exponential relationships</li> <li>▪ Quadratic relationships</li> <li>▪ Symmetry and transformations</li> <li>▪ Symbols</li> <li>▪ Linear systems &amp; inequalities</li> <li>▪ Data &amp; statistics</li> </ul>

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<p><b><i>History/ Cultural Studies/ Geography</i></b></p> <p><b><i>Life Skills</i></b></p>	<ul style="list-style-type: none"> <li>▪ Geography: includes land forms, maps and cultures</li> <li>▪ History: awareness of the passage of time through timelines, calendars &amp; clockwork</li> </ul> <p>Environmental awareness</p>	<ul style="list-style-type: none"> <li>▪ History of writing</li> <li>▪ History of math</li> <li>▪ Timeline of history including pre-history, ancient Greece, Rome and China, Europe; United States</li> <li>▪ Analyze needs of human society: communication, art, religion, transportation, food, health, shelter, clothing, industry, mechanization, economy and agriculture</li> <li>▪ Human settlement and its influence on the environment and geography</li> <li>▪ Development and interdependence of local, state, national and international communities</li> <li>▪ Exchange of goods and services</li> <li>▪ Contribution of individuals, cultural diversity and heritage</li> <li>▪ Values and laws of communities, concerns; lawmaking process</li> <li>▪ Famous Americans, U.S. national holidays, Native Americans, regional groups and way of life</li> <li>▪ Rules/laws for classroom, school and community, citizen and environmental responsibilities</li> <li>▪ Community needs, resources and relationships, comparisons of communities</li> <li>▪ Physical and political map and globe skills</li> </ul>	<ul style="list-style-type: none"> <li>▪ U.S. States: capitals, major cities, climate and vegetation, regional characteristics, explorers, Spanish, French and Dutch, English colonies, American Revolution</li> <li>▪ Civic responsibilities, types of government: local, county, state and U.S. history/government systems, Declaration of Independence</li> <li>▪ Illinois history</li> <li>▪ Ancient cultures</li> <li>▪ Research projects</li> <li>▪ Physical and political maps, special purpose maps (i.e., population), world time zones, dateline, climate zones, bodies of water, landforms</li> </ul>	<ul style="list-style-type: none"> <li>▪ Prehistoric Native North America and Illinois</li> <li>▪ Colonial America and revolution;</li> <li>▪ Constitution, government and nation-building</li> <li>▪ The South and slavery, Civil War</li> <li>▪ 20th century Chicago and/or Oak Park</li> <li>▪ Ancient civilizations</li> <li>▪ World religions; war and peace; education; development of agriculture; civil rights; focus on social movements, economics, politics and culture; geography, location, movement, regions, pro/con issues; current events</li> <li>▪ Note-taking; reading of primary sources; field study; dramatis personae; formal research papers; unit tests; visits with specialists; map and timeline work; group and individual creative presentations</li> </ul>

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<b><i>Life Science</i></b> <b><i>Physical Science</i></b> <b><i>Earth Science</i></b> <b><i>Health</i></b>	<ul style="list-style-type: none"> <li>▪ Botany: development of the child's awareness of plant life</li> <li>▪ Zoology: development of the child's awareness of animals</li> <li>▪ Physical Science: exploration of physical experiments</li> <li>▪ Scientific classification</li> </ul>	<ul style="list-style-type: none"> <li>▪ Timeline of Life</li> <li>▪ Development of life; adaptation to environment</li> <li>▪ Scientific method</li> <li>▪ Classification of organisms</li> <li>▪ Observation skills; use a microscope</li> <li>▪ Flowering plants, plant parts, trees and classification</li> <li>▪ Plant care and functions</li> <li>▪ Identify animal groups: invertebrates/vertebrates</li> <li>▪ Animal care and functions</li> <li>▪ Animal behaviors/habitats (endangered)</li> <li>▪ Three states of matter, energy, motion, properties of air/sound</li> <li>▪ Observe physical and chemical changes</li> <li>▪ History of science/technology; simple machines</li> <li>▪ Balance and weight</li> <li>▪ Ecology, recycling</li> <li>▪ Composition of solar system</li> <li>▪ Formation of: volcanoes, seas, atmosphere, plate tectonics</li> <li>▪ Weather, seasons, change</li> <li>▪ Rocks, minerals, soil, cycle, components</li> <li>▪ Human body systems: support, movement</li> <li>▪ Nutrition, personal hygiene</li> </ul>	<ul style="list-style-type: none"> <li>▪ Timeline of Life</li> <li>▪ Scientific method</li> <li>▪ Cell structure/processes</li> <li>▪ Genetics</li> <li>▪ Classification of organisms</li> <li>▪ Organism adaptations/cycles</li> <li>▪ Communities/systems</li> <li>▪ Physical and chemical properties</li> <li>▪ Static electricity, magnets</li> <li>▪ Energy production, transfer, uses</li> <li>▪ Matter, motion, machines, Newton's laws</li> <li>▪ Weather and climate</li> <li>▪ Earth's cycles and changing surface</li> <li>▪ Rock types and formation</li> <li>▪ Earth minerals and soils</li> <li>▪ Earth in space (a study of solar system)</li> <li>▪ Solar system</li> <li>▪ Body systems/functions</li> <li>▪ Environmental studies</li> <li>▪ Nutrition</li> </ul>	<ul style="list-style-type: none"> <li>▪ Botany: cell structure and function; photosynthesis; parts and functions of a plant, flower, seed; soil components</li> <li>▪ Chemistry: periodic table, atomic structure, chemical and physical changes, ionic and covalent bonding, pH/acids/bases</li> <li>▪ Ecology and biodiversity; characteristics of living things, levels of organization, classification of organisms, ecological systems and cycles, evolution and adaptation</li> <li>▪ Physics: simple machines, work, force, motion, potential and kinetic energy, Newton's laws of motion, laws of thermodynamics</li> <li>▪ Anatomy and physiology: cell structure and function, body systems, puberty, sexual reproduction, sexuality, health, genetics</li> <li>▪ Earth science and astronomy: geological time scale, structure and composition of Earth, plate tectonics, terrestrial coordinates, Earth's movements, rotations and orbits</li> <li>▪ Scientific method</li> <li>▪ Scientific papers</li> <li>▪ Microscope</li> <li>▪ Dissection</li> <li>▪ Field studies</li> </ul>