



Alcuin Montessori Curriculum Benchmarks

DEVELOPMENT				
Toddler age 1.5-3	Primary age 3-6	Junior Elementary age 6-9	Senior Elementary age 9-12	Middle School age 12-14
<ul style="list-style-type: none"> ● Fine motor skills: palmer, pincer grasp, muscular strength ● Gross motor skills: walking, running, jumping, balancing ● Body control ● Growing independence 	<ul style="list-style-type: none"> ● Lengthening attention span ● Developing gross and fine motor control ● Developing sense of order ● Increasing independence ● Increasing self-motivation 	<ul style="list-style-type: none"> ● Increasing responsibility and accountability ● Beginning to explore abstract world ● Reasoning ● Connecting facts, thoughts, and memories ● Developing increased sympathy and empathy ● Developing ability to collaborate 	<ul style="list-style-type: none"> ● Social beings ● Exploring abstract world ● Searching for reasons and answers ● Beginning to create a sense of identity and code of values ● Beginning to think about their place in the world ● Beginning to identify and employ their own individual learning style ● Beginning to develop a strong sense of justice 	<ul style="list-style-type: none"> ● Highly social ● Need to understand adult world ● Developing personal identity ● Values sense of community belonging ● Values personal dignity and social justice ● Increasingly capable of purely abstract thought, reasoning

LIFE SKILLS

<p style="text-align: center;">Toddler age 1.5-3</p>	<p style="text-align: center;">Primary age 3-6</p>	<p style="text-align: center;">Junior Elementary age 6-9</p>	<p style="text-align: center;">Senior Elementary age 9-12</p>	<p style="text-align: center;">Middle School age 12-14</p>
<ul style="list-style-type: none"> ● Care of self: dressing, undressing, toilet learning, self-feeding, self-soothing ● Care of the environment: care for workspace, rug etiquette, cleaning up, using materials with care and respect ● Grace and Courtesy: greeting peers and adults, patience, tolerance, appropriate social graces and manners 	<ul style="list-style-type: none"> ● Grace and Courtesy: participate in and build a community in the classroom and society ● Observation skills ● Carry out a plan to completion ● Respect for and care of materials and the environment ● Care of self - basic needs (bathroom, nose blowing, hand washing, dressing) ● Community awareness; introduction to community service ● Peace education; conflict resolution ● Silence 	<ul style="list-style-type: none"> ● Conflict resolution/ problem-solving skills ● Respectful of self and others ● Daily work plan and objectives ● Community jobs ● Care for the environment and materials ● Care for animals ● Manners while eating ● Food preparation ● Care of self ● Management of personal spaces ● Community awareness ● Advocating for one's own needs 	<ul style="list-style-type: none"> ● Recognizing and valuing differences in others ● Compassion for others and self ● Reflect on and appreciate strengths and challenges ● Ability to take/give feedback from/to peers ● Takes ownership in personal growth ● Awareness to find the balance between work/friendships ● Developing critical thinking skills ● Developing the ability to see someone else's perspective 	<ul style="list-style-type: none"> ● Greater personal, social, and academic responsibility ● Care of self and community ● Leadership ● Entrepreneurialism ● Executive functioning skills ● Increased independence in work management ● Conflict resolution and community problem-solving ● Employment skills

ENGLISH LANGUAGE

<p align="center">Toddler age 1.5-3</p>	<p align="center">Primary age 3-6</p>	<p align="center">Junior Elementary age 6-9</p>	<p align="center">Senior Elementary age 9-12</p>	<p align="center">Middle School age 12-14</p>
<ul style="list-style-type: none"> ● Receptive language: listening, responding to name, music and sounds, able to follow one-step and multiple-step direction, engaging in eye contact ● Expressive language: growing vocabulary of 10-100 words, expressing needs and feelings with words, asking and answering simple questions, engaging in eye contact ● Introduction of letter sounds 	<ul style="list-style-type: none"> ● Identifying sounds ● Associating sounds with lowercase letters ● Introduction to grammar ● Comprehension and articulation; organizing thoughts and feelings ● Establishing logical relationships ● Verbal commands ● Three-period lessons ● Expansion of vocabulary 	<ul style="list-style-type: none"> ● Parts of speech ● Basic punctuation ● Sentence analysis ● Word study (parts and types) ● Introduction to dictionary, thesaurus, encyclopedia, atlas ● Alphabetical order ● Spelling 	<ul style="list-style-type: none"> ● Prefixes and suffixes ● Etymology ● Punctuation and capitalization ● Spelling patterns ● Sentence analysis ● Word study ● Sentence diagramming ● Usage of dictionary, thesaurus and encyclopedia ● Sentence structure 	<ul style="list-style-type: none"> ● Prefixes, suffixes, roots ● Grammar rules ● Punctuation ● Sentence structure ● Active and passive voice ● Using dictionary and thesaurus as resources

READING

Toddler age 1.5-3	Primary age 3-6	Junior Elementary age 6-9	Senior Elementary age 9-12	Middle School age 12-14
<ul style="list-style-type: none"> ● Preparation for reading: books read by teacher, children explore books independently ● Identifying alphabet letters with matching work, puzzles 	<ul style="list-style-type: none"> ● Reading readiness: letter/sound recognition ● Development of phonetic decoding ● Phonograms, sight words, puzzle words ● Appreciation of written language ● Reading for information ● Comprehension 	<ul style="list-style-type: none"> ● Fluency ● Decoding skills ● Comprehension strategies ● Phonics ● Sight word vocabulary ● Understanding fiction and non-fiction texts ● Sequence order in a story ● Prediction ● Glossary and reference skills ● Guided reading ● Research skills 	<ul style="list-style-type: none"> ● Vocabulary development ● Fluent independent reading skills in a variety of literary genres ● Reading comprehension and interpretation ● Research skills 	<ul style="list-style-type: none"> ● Development of skills in close reading, comprehension, and critical thinking ● Analysis and interpretation of literary elements (setting, character, plot, conflict, theme) and literary devices (foreshadowing, allusion, symbolism, flashback, etc.) ● Exploration and comparison of various literary genres ● Analysis and reflection of text supported with textual evidence ● Research skills: locate and discern validity of print and internet sources; outlining and synthesize material; document sources

WRITING

Toddler age 1.5-3	Primary age 3-6	Junior Elementary age 6-9	Senior Elementary age 9-12	Middle School age 12-14
<ul style="list-style-type: none"> ● Preparation for writing with pincer grasp activities (i.e. holding a paintbrush, transfer work, holding a small crayon, coloring, tracing shapes) ● Chalkboard 	<ul style="list-style-type: none"> ● Finger dexterity and strength are developed through working with Practical Life, Sensorial and other manipulative exercises ● Sandpaper letters & moveable alphabet ● Metal insets ● Cursive handwriting ● Pincer grip ● Chalkboard, unlined, lined paper ● Create stories and record; composition of thoughts ● Begin learning upper case in Extended Day ● Punctuation: introduce period, capitalize first letter, etc. ● Grammar; function of words 	<ul style="list-style-type: none"> ● Cursive ● Record work neatly ● Dictation ● Sentence writing ● Paragraph writing ● Paraphrasing ● Summary writing ● Creative writing ● Letter writing ● Writing process: prewriting, drafting, editing and revising ● Research report ● Bibliography 	<ul style="list-style-type: none"> ● Paraphrasing ● Summarizing ● Note-taking ● Concept maps ● Outlines ● Topic sentences ● Transition words ● Conclusions ● Styles of poetry ● Story writing ● Letter writing ● Report writing ● Research papers ● Essays <ul style="list-style-type: none"> - Persuasive - Descriptive - Expository - Narrative ● Bibliographies, use of primary and secondary sources ● Writing process: brainstorming, rough draft, editing, publishing ● Peer editing 	<ul style="list-style-type: none"> ● Information writing: research-based essays and publications, argument essays, journalism ● Narrative writing: personal narrative, realistic fiction, short story ● Poetry: free verse and a variety of structured forms; techniques ● Evaluation of audience, purpose, and effectiveness of writing ● Varying and appropriate use of tone and voice ● Development of transitions, precision of language, detail, sensory language ● Writing process: plan, draft, revise (repeat), edit, proofread, publish ● Peer conferencing

MATHEMATICS

Toddler age 1.5-3	Primary age 3-6	Junior Elementary age 6-9	Senior Elementary age 9-12	Middle School age 12-14
<ul style="list-style-type: none"> ● Counting taught through the classroom materials and Practical Life area (i.e. counting plates and utensils needed to set a table) ● Concrete materials are used to increase sensorial experience of quantities and numerals (sandpaper numbers, wooden cylinders from 1-10) 	<ul style="list-style-type: none"> ● Preparation for math begins in the Practical Life and Sensorial areas, including geometry and algebra concepts ● Mathematical mind: order and precision ● Concrete materials are utilized throughout curriculum, materials move from more concrete to more abstract ● Intro to numbers: quantity and symbol recognition with numbers 1 – 10, concept of 0, odd and even numbers ● Linear Counting: 11 – 9999 and skip counting ● Sensorial introduction to square and cube roots ● Decimal system: quantity and symbol recognition, place value for numbers 1 - 9,999. ● Introduction to operations addition and multiplication, subtraction and division; Static, then 	<ul style="list-style-type: none"> ● Addition, subtraction, multiplication, and division process ● Numeric order, place value ● Telling time using analog and digital clock ● Fractions ● Geometric shapes and symmetry ● Area and perimeter ● Word problems ● Multiplication with multi-digit multipliers ● Division with multi-digit divisors ● Graphs: collecting and representing data ● Mental math and estimation ● Measurement: length, weight, temperature ● Skip counting and multiples 1-10 ● Coin and bill names and values ● Money math ● Rounding ● Squaring ● Cubing ● Odd/Even ● Inequalities ● Study of lines ● Study of angles 	<ul style="list-style-type: none"> ● Mathematical properties ● Traditional and alternative algorithms to solve addition, subtraction, multiplication, and division problems with whole numbers ● Geometry: properties of 2-D and 3-D figures; area, perimeter, volume; concepts of shape and volume; types of angles and angle measurement ● Collect, record, and graph data ● Logic problems ● Addition, subtraction, multiplication, and division of whole numbers, fractions and decimals ● Ratio, proportion, percentages ● Integers ● Negative numbers ● Exponents ● Probability ● Variables ● Order of operations ● Squaring, cubing, square roots, cube 	<ul style="list-style-type: none"> ● Negative numbers: addition, subtraction, multiplication, and division ● Comparing and converting fractions, decimals, and percentages ● Identifying, graphing, and comparing rates and proportional relationships ● Interpreting and solving expressions, equations, and inequalities ● Evaluating and writing expressions ● Volume & surface area ● Complementary, supplementary, and vertical angles ● Geometric similarity ● Scaling drawings ● Simple probability and compound events ● Comparing and sampling populations ● Exponents and exponent properties ● Solving equations with one unknown ● Graphing, analyzing, and solving linear

	<p>dynamic</p> <ul style="list-style-type: none"> ● Introduction to fractions ● Word problems ● Record equations 	<ul style="list-style-type: none"> ● Parts of a circle ● Study of triangles ● Study of quadrilaterals ● Types of polygons 	<p>roots</p> <ul style="list-style-type: none"> ● Word problems ● Measurement ● Balancing equations ● Rounding ● Time ● Budgeting 	<p>equations and functions</p> <ul style="list-style-type: none"> ● Systems of equations ● Pythagorean Theorem ● Geometric transformations ● Scatter plots and lines of best fit ● Rate conversions ● Slope intercept, point-slope form, and standard form equations ● Polynomials ● Factorization ● Quadratics
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CULTURAL STUDIES (History, Geography, Civics)

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<ul style="list-style-type: none"> ● Developing awareness of seasons/weather (daily conversations) ● Introduction to learning about different cultures (through songs, books, and short presentations) 	<ul style="list-style-type: none"> ● Geography: includes landforms, maps, flags, and cultures through artifacts and photos ● History: awareness of the passage of time through timelines, calendars, seasons, clockwork; celebration of life ● Environmental awareness 	<ul style="list-style-type: none"> ● History of writing and math ● Timeline of history including pre-history, ancient Greece, Rome and China, Europe ● Needs of human society ● Contribution of individuals, cultural diversity and heritage ● Significant people in world history ● U.S. national holidays ● Citizen and environmental responsibilities ● Physical and political map and globe skills ● Ecology, recycling ● Universe and solar system studies ● Formation of: volcanoes, rivers, and mountains ● Climate, weather, seasons ● Rock and mineral studies ● Continent and ocean studies ● Land and water forms 	<ul style="list-style-type: none"> ● U.S. States: capitals, major cities, climate and vegetation, regional characteristics ● Civic responsibilities, types of government: local, county, state and U.S. ● Ancient cultures ● World War II ● Civil War ● Physical and political maps, special purpose maps (i.e., population), world time zones, dateline, climate zones, bodies of water, landforms ● Fundamental needs of human beings ● Research on famous peacemakers ● Longitude/latitude 	<ul style="list-style-type: none"> ● Colonial America and American Revolution ● The Constitution and American government ● Transatlantic slave trade ● Agricultural, industrial and technological revolutions ● Chicago and/or Oak Park history ● U.S. immigration history and current events ● World War II & the Holocaust ● Social Justice ● Current Events ● Independent research ● Presentation skills

SCIENCE (Zoology, Botany, Physical Sciences)

Toddler age 1.5-3	Primary age 3-6	Junior Elementary age 6-9	Senior Elementary age 9-12	Middle School age 12-14
<ul style="list-style-type: none"> ● Developing an awareness about plants and how to care for them ● Developing an awareness of animals through care of a class pet (how it lives, eats, etc) and books about different animals 	<ul style="list-style-type: none"> ● Scientific classification: observation, research, experimentation ● Botany: development of the child's awareness of plant life, plant care, gardening ● Zoology: development of the child's awareness of animals, care of animals ● Physical science: exploration of physical experiments 	<ul style="list-style-type: none"> ● Timeline of Life ● Evolution studies ● Scientific method ● Classification of organisms ● Observation skills ● Microscope ● Five living kingdoms studies ● Animal kingdom studies ● Plant studies ● Animal care and functions ● Animal behaviors/ habitats ● Study of vertebrates and invertebrates ● Three states of matter ● Energy, motion ● Observe physical and chemical changes ● Magnetism ● Simple machines ● Balance and weight ● Human body studies ● Nutrition 	<ul style="list-style-type: none"> ● Timeline of Life ● Scientific method ● Cell structure/ processes ● Genetics ● Classification of organisms ● Organism adaptations/cycles ● Human body systems/ functions ● Nutrition ● Static electricity, magnets ● Energy production, transfer, and its uses ● Weather and climate ● Earth study: formation, cycles, changes, rotation and revolution ● Plate tectonics ● Study of rock/minerals ● Parts of a volcano ● Environmental studies ● Recycling/composting ● Solar system ● Constellation of stars 	<ul style="list-style-type: none"> ● Scientific method ● Botany: cell structure and function, parts and functions of a plant, soil components, photosynthesis ● Chemistry: Periodic Table, atomic structure, chemical and physical changes, ionic and covalent bonding, pH/acids/bases ● Ecology: characteristics of life, classification, ecological systems and cycles, evolution and adaptation ● Physics: simple machines, work, force, motion, potential and kinetic energy, Newton's laws of motion ● Anatomy and physiology: cell structure and function, body systems, puberty, sexual reproduction, health, genetics ● Earth science: geologic time, structure and composition of Earth, plate tectonics, terrestrial coordinates, Earth's movements,

				rotations and orbits • Scientific papers and lab reports
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