CENTRAL MONTESSORI SCHOOL

Scope and Sequence

Elementary Program

2012/2013

Citizenship and Study Skills

Classroom guidelines
Care of self and belongings. "Teacher will take care of others."
Respect and care for others and their belongings.
Respect and care for your interior and exterior environments and all that is in them.
Willingly join in group activities/work with a friend/work independently
Tell a teacher if angry, upset or hurt.
Keep your hands to self.
Always do your best and do not worry about mistakes.
Ask many, many questions every day. Be curious and Brave!
Communication skills/Social behaviors
Respond positively to requests and challenges. This will help you have a positive self-image.
Come very close to someone you want to talk to and touch his or her shoulder.
Speak respectfully to others.
Patiently wait for your turn to speak to someone or to use a material.
Do not interrupt others if they are speaking to someone
Use a calm and kind voice, even if someone makes a mistake.
Call children by their given names only.
Always talk about your behavior, not anyone else's.
Tell a teacher when you go to the bathroom, library, porch, or home.
Only talk about people who are present.
Do not repeat negative language. Report negative language to a teacher.
Identify ways to serve our school and our community.
Moving carefully and purposefully in the classroom
Always walk slowly, carefully and quietly through the room.
Walk around workspaces.
If you drop or spill something, always pick or clean it up.
Sit with your hands in your lap so others will not trip, fall or step on you.
Once you sit down for group time, do not move to another place.
Take only your space and do not save a place for a friend.
Take work from shelves only, not from tables or mats.
Always keep your hands to your side or in your lap when you are observing someone work.
Do not touch another child's work or speak to him/her while (s)he has work in front of her/him.
Only teachers may open a door unless they tell you it is ok for you to open a door.

Always manage your materials in an organized, orderly fashion.
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Work Cycles
Do not lean on tables or materials.
Make lessons selections throughout the day with periods of rest in-between.
Ask a teacher for a lesson before removing materials from the shelf for the first time.
Take work from shelves only, not from tables or mats.
Use only one workspace at a time.
Try very hard to complete your work in a timely manner.
Concentrate on your work, work carefully and pay close attention to details.
Always strive to maintain focused attention on your task for increasing amounts of time.
Work hard to problem solve if you need to find a solution/answer.
Ask a teacher if you need help with any of your lessons.
Record your work in your work journal unless otherwise instructed.
Have a teacher check your work before restoring it.
Only take work home that has a teacher's check on it.
Restore the materials you use to their correct place and leave them ready for the next person.
Restore your mat or table area before selecting your next work.
Complete assigned homework in timely manner.
Participate in all science fairs and enrichment activities

Academic/Intellectual Development

LANGUAGE ARTS
Conversation skills: Expresses self logically-allows others to participate
Presentation skills: Organizes information
Performance skills: Speaks appropriately for audience and venue
Group story-building
Acquires meaningful vocabulary: Expressive, mathematic, scientific, artistic and positive social vocabulary and expression.
Cursive writing
Unlined paper
Lined paper
Writes with/without visual representation
Letters
Words
Grammar/function of word
Identifies simple nouns and pronouns
Identify verbs
Identify adjective
Identify articles
Identify conjunctions
Identify prepositions
Identify adverbs
Identify different types of nouns
Identify different types of verbs
Applies rules for creating regular and irregular verb conjugations as well as other uses for various verb form
Identify different types of adjectives
Identify different types of articles
Identify different types conjunctions
Identify different types prepositions (focus)
Identify different types adverbs
Identify different types pronouns
Diagram simple sentences
Sentence analyzes uses for nouns, adjectives, adverbs, pronouns and prepositions
Study of grammatical arrangements in other languages
Constructs and diagrams sentences according to specific patterns such as simple, compound, and complex

Identifies main clause and subordinate clause
Word Study
Rhyming words
Synonyms
Homophones
Compound words
Syllables
Opposites
Capitalization of proper nouns
Capitalization in all appropriate incidences
Word Families-common suffixes, prefixes
Common Abbreviations
Sound alike phonemes
Syllables (identify numbers)
Plurals/possessive nouns
Spelling
Short vowel words
Long vowel words
Blends
Sight words
Phonograms
Spelling lists (individual and/or group)
Spell 1,2,3,4,5,6,7,8,9,10> sight words
Alphabetizing
Pre-dictionary skills (word boxes)
Dictionary studies
Applies various strategies for gaining vocabulary and for word recognition in multiple contexts
Composition
Creates sentences
Creates paragraphs
Composes and writes stories
Daily journal recordings (dictates, traces dictation, builds, writes own sentences)
Creates book reports-paraphrases and summarize material
Writes poetry and prose
Creates original works of poetry based on given patterns

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onsiders different perspectives on historical events, cultures and situations presented in novel
nterprets author's intent and motivations of characters
efines opinions and inferences using textual evidence
dentifies and uses alliteration, analogies and metaphors
dentifies and uses different genres of literature

Library skills
Identifies parts of a book
Identifies non-fiction/fiction
Treats books with respect
Demonstrates skill with reference aids such as guide words, table of contents and alphabetizing
Spanish
Follows directions given in Spanish
Participates in common greetings
Knows days of the week, months and seasons of the year
Knows common foods
Knows numbers up to 100
Knows names and titles of family members
Describe daily weather
Describe daily clothing
Identify and express emotions/feelings
Developing beginning conversational skills
Collecting written Spanish words/vocabulary cards
Composing sentences in Spanish
Spanish grammar
Spanish alphabet
Read simple Spanish books
MATHEMATICS
Hierarchy of Numbers
Place value of numbers (less than 9,999)
Large numerals (less than 999,999,999)
Standard and expanded numerals
Exchange games
Skip Counting (multiples of numbers)
E1 level: 0,1,2,5,10 (home support is important)
E2 level: 9,3,4,11 (home support is important)
E3 level: 6,7,8 (home support is important)
Factoring numbers, discover prime numbers
Table memorization activities: multiples, factors
Exponential notation: squaring/square root, cubing/cube root
Different base systems

Negative number line and equations
Four or more column operations with or without materials
Static (no exchanging): addition, multiplication, subtraction, division
Exchange Games
Dynamic (exchanging): addition, multiplication, subtraction, division (short)
Missing sign operations
Parenthesis used in equations
Order of operations
Use of number line to 100
Use of negative number line to -20
Measurements
Arbitrary measurements
Measures volume
Linear measurements
Reads thermometer
Measurement of mass-equal arm balance and equivalency work-grams
Geometric measurements: perimeter, area, diameter, circumference, altitude, angles
Use measurement conversions
Fractions
Identify 1/10 - 1
Identify and use fractions smaller than 1/10
Identify and use mixed numbers, proper and improper fractions
Convert mixed numbers, proper and improper fractions to same
Four operations with like denominators
Four operations with unlike denominators
Fraction equivalency to summation of one (tenths)
Fraction equivalency: reducing fractions
Decimal fraction work
Decimal-hierarchy work: build and read fractions
Representative quantities from millions to millionths accurately using place values in various formats
Converts fractions to decimals and percentages
Rounds to various decimal place values
Uses proportions
Identify parts of clock and time by hour, 1/4 hour, minutes
Calculate hours from present, half hours from present, mixed minutes from present

Money – Name of penny, nickel, dime, quarter, dollar
Knows value of coins
Records amounts on paper (\$0.00)
Adds and subtracts amounts
Exchanges values:\$1 equivalency in coins and bills
Graphs/Data
Take simple surveys
Creates, picture graphs, bar graphs
Assigns interpretive value to information on graphs
Use data representations and interpretation
Probability and statistics (data collecting, comparative methods of data display
Patterns, functions, algebra
Identifies odd and even patterns
Number line-whole numbers with mixed operations
Identifies odd and even
Estimates values
Finds unknown values
Builds Venn Diagram
Identify repeating patterns-expanding patterns
Uses number comparisons (more than, less than)
Understands congruency, similarity, equivalency
Identifies probability as low/high
Rounds numbers to nearest 10, 100, 1000
Knows Roman Numerals up to 100
Uses tally marks
Word Problems
Uses all four operations
Word problems with multiple steps and mixed operations
Identifies and applies various strategies for solving word problems
Uses estimations to solve word problems and check accuracy of answers
Applies algebraic reasoning to solve "real life" mathematical problems
Uses number patterns to solve word problems
Geometry (identify and name)
Point to solid study
Plane shapes: name and identify parts of

Circle and curvilinear shapes: name and identify parts of
Name and measure single angles
Understand and measure relationships of angles
Triangles: name and identify parts of
Triangles: names of based on sides and angles
Rectangle (square) perimeter study
Polygons named
Geometric Solids: identify ovoid, ellipsoid, sphere, cylinder, prism, pyramid, cone
Congruency, similarity, equivalency
Applies knowledge of equivalence to solve for the area of polygons
Explore and measure area
Explore and measure volume
Pythagorean Theorem
Introduction to the Geometry of the Pentagram
SCIENCE
Uses the tools of science, microscope, binoculars, measuring instruments etc.
Identifies Fundamental Needs of All Living Things
Classifies living organisms into five families
Plant, animal, mineral identification
Study of Five Kingdoms-Classification
Introduction to the Tree of Life
Names kingdoms
Understands major features of each category
Applies classification techniques
Linnaean classification hierarchy
Identifies features of each phyla studied
Botany (Nomenclature parts & function of)
Plants: needs of a plant
Identifies plant products and their values
Evolutionary role of plants
Classification by class and phyla
Care of classroom plants (needs of plants)
Gardening
Observes and explains life cycles of plants
Observations of plants in nature

Zoology (Nomenclature parts &function of) Hiktory of Life of Earth-Great Lesson Evolution/adaptation is basis for survival and progress of species: fossils as evidence Living and Non-living classification Non-vertebrates/Vertebrates classification Inter-relativeness of living things: how organisms build and maintain mutually beneficial conditions for many species Food webs: herbivores, carnivores, omnivores & prey, predator relationships Introduction to 8 major biomes and zones: desert, ocean, torrid, mountain, forest, grasslands, arctic, temperate Participate in composting -producers of recycled energy External parts of the human anatomy (needs of animals) Function 6 major systems: circulatory, skeletal, respiratory, digestive, nervous, muscular Compares function of exterior and internal anatomy of chordates The Structure of Life: intro to cellular biology Focus on lower kingdoms: Monera, Protista, and Fungi Observation and care of wild animals (needs of animals) Human interactions with animals-impact of Gifts of animals Physical Science(Experiments/Demonstrations)-Big Bang Great Lesson States of Matter: identify soild, liquid, gas Build atoms of elements Construct common molecules Explore influences of heat, pressure, density and volume </th <th>Gifts of Plants</th>	Gifts of Plants
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Evolution/adaptation is basis for survival and progress of species: fossils as evidence Evilution/adaptation is basis for survival and progress of species: fossils as evidence Evilution/adaptation is basis for survival and progress of species: fossils as evidence Evilution/adaptation is basis for survival and progress of species: fossils as evidence Evilution/adaptation species. Food webs: herbivores, canivores, onnivores & prey, predator relationships Introduction to 8 major biomes and zones: desert, ocean, torrid, mountain, forest, grasslands, arctic, temperate Participate in composting -producers of recycled energy External parts of the human anatomy (needs of animals) Function of emigor systems: circulatory, skeletal, respiratory, digestive, nervous , muscular Compares function of exterior and internal anatomy of chordates The Structure of Life: intro to cellular biology Focus on lower kingdoms: Monera, Protista, and Fungi Observation and care of wild animals (needs of animals) Human interactions with animals-impact of Gifts of animals Physical Science(Experiments/Demonstrations)-Big Bang Great Lesson States of Matter: identify solid, liquid, gas Build atoms of elements Construct elements chart Construct common molecules Explore chemical bonds Concepts of nearg, restruct, and volume The study of and work of: water, light, gas, sound, magnetism, friction, weight/gravity/mass, temperature, force Study of waves: kinds, parts of in light and sound Simple machines: intro. and use of lever, inclined plane, wheel/asle, pulley Studies of the Physical Earth Formation of the earth In relationship to the sun and planets Parts of the Earth	Zoology (Nomenclature parts &function of)
Living and Non-living classification Non-vertebrates/Vertebrates classification Inter-relativeness of living things: how organisms build and maintain mutually beneficial conditions for many species Food webs: herbivores, carnivores, omnivores & prey, predator relationships Introduction to 8 major biomes and zones: desert, ocean, torrid, mountain, forest, grasslands, arctic, temperate Participate in composting -producers of recycled energy External parts of the human anatomy (needs of animals) Function 6 major systems: circulatory, skeletal, respiratory, digestive, nervous , muscular Compares function of exterior and internal anatomy of chrodates The Structure of Life: intro to cellular biology Focus on lower kingdoms: Monera, Protista, and Fungi Observation and care of wild animals (needs of animals) Human interactions with animals-impact of Gifts of animals Physical Science(Experiments/Demonstrations)-Big Bang Great Lesson States of Matter: identify solid, liquid, gas Build atoms of elements Construct common molecules Explore chemical bonds Concepts of nergy, electricity and conservation Explore influences of heat, pressure, density and volume The study of and work of: water, light, gas, sound, magnetism, friction, weight/gravity/mass, temperature, force Study of waves: kinds, parts of in light and sound Simple machines: intro. and use of lever, inclined plane, wheel/asle, pulley Studies of the Physical Earth Formation of the earth In relationship to the sun and planets Parts of the Earth	History of Life of Earth-Great Lesson
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Inter-relativeness of living things: how organisms build and maintain mutually beneficial conditions for many species Food webs: herbivores, carnivores, omnivores & prey, predator relationships Introduction to 8 major biomes and zones: desert, ocean, torrid, mountain, forest, grasslands, arctic, temperate Participate in composting -producers of recycled energy External parts of the human anatomy (needs of animals) Function 6 major systems: circulatory, skeletal, respiratory, digestive, nervous , muscular Compares function of exterior and internal anatomy of chordates The Structure of Life: intro to cellular biology Focus on lower kingdoms: Monera, Protista, and Fungi Observation and care of wild animals (needs of animals) Human interactions with animals-impact of Gifts of animals Physical Science(Experiments/Demonstrations)-Big Bang Great Lesson States of Matter: identify solid, liquid, gas Build atoms of elements Construct elements Construct elements Construct elements Concepts of energy, electricity and conservation Explore influences of heat, pressure, density and volume The study of and work of: water, light, gas, sound, magnetism, friction, weight/gravity/mass, temperature, force Study of waves: kinds, parts of in light and sound Simple machines: intro. and use of lever, inclined plane, wheel/axle, pulley Studies of the Physical Earth Formation of the earth In relationship to the sun and planets Parts of the Earth	Living and Non-living classification
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Introduction to 8 major biomes and zones: desert, ocean, torrid, mountain, forest, grasslands, arctic, temperate Participate in composting - producers of recycled energy External parts of the human anatomy (needs of animals) Function 6 major systems: circulatory, skeletal, respiratory, digestive, nervous , muscular Compares function of exterior and internal anatomy of chordates The Structure of Life: intro to cellular biology Focus on lower kingdoms: Monera, Protista, and Fungi Observation and care of wild animals (needs of animals) Human interactions with animals-impact of Gifts of animals Physical Science(Experiments/Demonstrations)-Big Bang Great Lesson States of Matter: identify solid, liquid, gas Build atoms of elements Construct elements chart Construct common molecules Explore influences of heat, pressure, density and volume The study of and work of: water, light, gas, sound, magnetism, friction, weight/gravity/mass, temperature, force Study of waves: kinds, parts of in light and sound Simple machines: intro. and use of lever, inclined plane, wheel/axle, pulley Studies of the Physical Earth Formation of the earth Answer Study of waters inters Parts of the Earth	Inter-relativeness of living things: how organisms build and maintain mutually beneficial conditions for many species
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Studies of the Physical Earth Formation of the earth In relationship to the sun and planets Parts of the Earth	Study of waves: kinds, parts of in light and sound
Formation of the earth In relationship to the sun and planets Parts of the Earth	Simple machines: intro. and use of lever, inclined plane, wheel/axle, pulley
In relationship to the sun and planets Parts of the Earth	Studies of the Physical Earth
Parts of the Earth	Formation of the earth
	In relationship to the sun and planets
Ocean studies: geographic features, regions of	Parts of the Earth
טובמון זונעובז. בבטצו מאווור ובמנעובז, ובצוטווז טו	Ocean studies: geographic features, regions of

River studies: parts of and function of
Volcanoes: Ring of Fire, parts of and function of
Rock cycle
Minerals and their roles
Land and water forms
Island study
Tectonic plates
Regions of the world
Parts of the biosphere: lithosphere, atmosphere, hydrosphere
Weather Awareness: erosion and natural forces
Earth Sciences
Cycles, heat, water, oxygen/carbon dioxide
Study of sources/uses of energy
Systems of conservation
Continent Studies-Political
Map skills-compass, directionality, latitude, longitude
Continents of the world
Major rivers of the world
Oceans of the world
Names of major countries of each continent
United States Studies
Identifies and names capitals of states in the United States
Virginia State Study
Match flags to N. A. and S. A. countries
Focus and report of specific countries
Our Place in Space and Time Unit
Cosmology: formation of the universe
Astronomy: solar system(s), planets
Study of peoples, their cultures and how they meet their fundamental needs
Resources of a culture
Study of animals from different continents
Science Fair Participation
Understands simples steps: guess, predict, experiment, conclude, record observations, use of control
Actively selects projects
Researches projects
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Follows instructions
Can discuss observations
Completes projects
Presents organized information to peers and teachers
HISTORY
Creates personal timeline
Uses time line of Life
Create timelines of flora and fauna, geographical transitions
Uses time line of civilization
Identifies and compares major time periods of civilizations
Uses timeline of modern humans
Develop timeline of inventions
Develop timeline of the Age of Exploration
American studies: Coming to America-immigration
History of United States: Introduction to political and social
American folk culture
Native American cultures
Pre-Colombian Central and South American cultures
Uses/makes subject time lines
Reads and creates reports of heroes (scientists, presidents etc.)
THE ARTS
Visual Arts
Skill building with tools
Manages and restores materials
Paints
Clay
Construction
Experiments freely
Willing to share ideas and products with others
Builds individual portfolios for small group "shows"
Music
Keep a steady beat
Reads rhythm cards
Plays to rhythm cards
Joins in singing

Solo singing
Knows staff and musical alphabet
Builds simple measures-composes
Performances
Comes to school knowing lines or poetry
Is able and willing to practice at school
Follows verbal instructions
Waits for turn patiently
Projects voice
Can remember cue before his/her lines
Participates in making props, costumes, stage settings
Helps others with performance skills
Is confident in front of a group of friends, parents, strangers
Creates and directs performance
Movement
Controls movement while close to others
Participates in group games
Plays outdoors enough to raise heart rate
Participates in Yoga
Plays with others
Can engage in competitive activities and demonstrate good sportsmanship skills
Develops soccer skills, dribble, shoot, head, pass, receive and trap
Participates in annual Running in Circles program

Lower Elementary Lessons Upper Elementary Lessons