

**Desert Montessori School
Upper Elementary E2
Three Year Curriculum Plan
Year One**

- I. Social Studies: Human Evolution and Early Structures of Society**
 - A. Human Needs versus wants
 - B. How people met their needs during the evolutionary changes
 - C. Technology and the development of tools to solve problems
 - D. What lead to the changes from meeting needs to trying to meet wants as well
 - E. Early structure of societies to meet needs
 - F. Shelters/dwellings
 - G. Economics of barter, trade
 - H. Development of language
 - I. Development of mathematics
 - J. Hunter and gathers
 - K. Religion
 - L. Art
 - M. Structure of society
 - N. Migration of Humans
 - O. Field trips
 - i. Fossils in Santa Fe Mountains
 - ii. Sandia Mountains—Sandia Cave
 - iii. Bandelier National monument
 - iv. Museum of anthropology
 - v. Crow Canyon Archaeological Center and Mesa Verde (Overnight)
- II. Geography**
 - A. Land features
 - i. All major types
 - ii. Which types were created with the creation of Earth
 - iii. How do they continue to evolve
 - B. Water features
 - i. Oceans
 - ii. Major rivers
 - iii. Major lakes
- III. Science: Data Collection, Analysis, and Display**
 - A. Earth Science
 - i. Formation of Planet Earth
 - a. Pangea
 - b. Continental Drift
 - c. Volcanoes
 - d. Plate tectonics
 - e. Earthquakes

- ii. Archaeology
 - iii. Astronomy
 - iv. The Seasons
 - v. Field Trips
 - a. Natural History Museum
 - b. Planetarium at the Santa Fe Community College
 - B. Life Science
 - i. Plants
 - a. Adaptations
 - b. Changes due to beginnings of agriculture
 - ii. Animals
 - a. Adaptations
 - b. Domestication
 - c. Emphasis on birds
 - C. Physical Science: Application of the scientific method to experimentation
 - i. Simple Machines
 - a. Lever
 - b. Pulley
 - c. Wheel and axle
 - d. Inclined plane
 - e. Screw
 - f. Wedge
 - ii. Compound machine
 - a. Bicycle
 - iii. Isaac Newton's Laws of Motion
 - D. Science Information Night
 - i. Students teach parents about a particular science topic studied in class
 - ii. Students share their work, their experiments, and their conclusions
- IV. Language Arts**
- A. Reading
 - i. Emphasis: Legends and Science Fiction
 - ii. Fiction
 - iii. Development of decoding and comprehension skills
 - iv. Development of new vocabulary
 - v. Participation in literary discussion groups
 - vi. Santa Fe Public Library
 - a. Every two weeks to check out books for reading pleasure and for research
 - B. Writing
 - i. Emphasis: Expository
 - ii. Research Reports
 - a. Note taking skills
 - b. Summarizing information
 - c. Paragraph development

- d. Citation of sources in a bibliography
- iii. Answering questions by restating the question and adding supporting details
- iv. Letter writing
- v. Personal Journal
- vi. Poetry
- vii. Book report
- viii. Five Paragraph Essay
- C. Spelling
 - i. Word study method based on developmental levels emphasizing phonetic, stem and derivational rules governing spelling
 - ii. Dictionary skills
- D. Daily Oral Language
 - i. Grammar and punctuation skills
 - ii. Troublesome words and usages
 - iii. Parts of speech

V) Mathematics

- A) Weekly lessons in concept and skill development
 - i) Mathematical vocabulary
 - ii) Place value
 - iii) Rounding and estimation of numbers
 - iv) Addition and subtraction
 - v) Factors and multiples
 - vi) Types of products: composite, square and prime numbers
 - vii) Multiplication and division
 - viii) Prime numbers and factorization
 - ix) Square roots
 - x) Exponents
 - xi) Fractions, decimals, and percents
 - xii) Positive and negative numbers
 - xiii) Lines: parallel, oblique, perpendicular, intersecting
 - xiv) Polygons
 - xv) Ratio, proportion, and percent
 - xvi) Probability
 - xvii) Algebraic thinking
- B Weekly lessons in applied mathematics
 - i) Standard and metric units of measure

1. Liquid
 2. Linear
 3. Perimeter, area, volume
 4. Radius, diameter, circumference
- ii) Graphs: line, circle, bar: interpretation and analysis of data
 - iii) Temperature: Fahrenheit, centigrade
 - iv) Coordinate planes and geometry: Cartesian graphing
 - v) Creating and measuring angles
 - vi) Creating polyhedrons: faces, edges, vertices
 - vii) Symmetry: reflection, rotation, translation
- C. Mathematics Projects: Year One**
- i. Symmetry in the world of the arts
 - ii. Probability: Between Never and Always

VI Other

A. Performing Arts

1. weekly drama lessons by classroom teachers

B. Field trips

1. Art museums in Santa Fe and Albuquerque
2. Performance centers in Santa Fe and Albuquerque

C. Theatrical Performance

1. Late spring performance for All Species Day, including: vocal music, dance, drama and the visual arts