

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

I) Social Studies: Ancient Rome, the Middle Ages and the Renaissance

- A) Examination of
 - i) The influences which brought about change in Europe
 - ii) Art
 - iii) Architecture
 - iv) Culture
 - v) Government
 - vi) Technology and inventions
 - vii) Mathematics
 - viii) Religion
 - ix) Social structure
 - x) Economics and trade
 - xi) Education

II) Geography

- A) Major land and water features of Europe
- B) The role of geography to the cultural development
- C) Natural resources and the role in trade and economy

III) Science: Physical and chemical sciences

- A) Application of the scientific method to experimentation
- B) Isaac Newton's Laws of Motion
- C) Chemical reactions
 - i) Acids and bases
 - ii) Atoms and molecules
- D) Properties of air and gravity
- E) Flight
- F) Surface tension
 - i) Floatation

- ii) Buoyancy
- iii) Density
- iv) Volume
- G) Light and sound
- H) Fieldtrips may include:
 - iii) Explora Museum
 - iv) Bradbury Museum

IV) Language Arts

A) Reading

- i) Emphasis: Folklore, historical fiction and biography
- ii) Fiction and non-fiction
- iii) Development of decoding and comprehension skills
- iv) Development of new vocabulary
- v) Participation in literary discussion groups
- vi) Santa Fe Public Library
 - (1) Field trips to check out books for reading pleasure, book reports and research

B) Writing

- i) Emphasis: persuasive and narrative
- ii) Research reports
 - (1) Note taking skills
 - (2) Summarizing information
 - (3) Paragraph development
 - (4) Citation of sources in a bibliography
- iii) Answering question by restating the question and adding supporting details
- iv) Letter writing
- v) Personal journal
- vi) Poetry
- vii) Book reports
- 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) Multiplication and division
 - vi) Factors and multiples
 - vii) Types of products: composite, square and prime numbers
 - 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
 - ii) Geometry
 - iii) Graphs: line, circle, bar, box and whisker
 - (1) Types and uses of graphs

(2) Interpretation and analysis of data

C) Cartesian coordinate graphing

D) Symmetry: reflection, rotation, translation

E) Mathematics Project: Data collection and analysis

- i) Data collection techniques and reliability
- ii) Analyzing data using range, mean, median, and mode
- iii) Creating tables and graphs to display information
- iv) Analyzing information to draw conclusions and make reliable judgments