

# Upper Elementary Level: Ages 9-12

Language Arts	Math	Science	Practical Life	Cultural Studies	Research and Technology
<p>Reading skills</p> <ul style="list-style-type: none"> <li>Interpretive reading for comprehension</li> <li>World's classical children's literature</li> <li>Literature circles</li> </ul> <p>Handwriting: routine use of proper cursive</p> <p>Advanced grammar and sentence analysis</p> <ul style="list-style-type: none"> <li>Parts of speech</li> <li>Subject/Predicate</li> <li>Direct/Indirect object</li> <li>Adjectival modifiers</li> <li>Adverbial modifiers</li> </ul> <p>Word study/Mechanics</p> <ul style="list-style-type: none"> <li>Capitalization</li> <li>Punctuation</li> <li>Prefix/Suffix</li> <li>Homonyms</li> <li>Etymology</li> </ul> <p>Literary elements</p> <ul style="list-style-type: none"> <li>Genre</li> <li>Plot</li> <li>Theme</li> <li>Conflict/resolution</li> <li>Climax</li> <li>Character analysis</li> <li>Setting</li> </ul> <p>Vocabulary</p> <p>Spelling</p>	<p>Math fact memorization</p> <p>Concrete to abstract in all operations</p> <p>Fractions</p> <ul style="list-style-type: none"> <li>Comparison and operations</li> <li>Mixed, proper/improper</li> <li>Reducing/Simplifying</li> </ul> <p>Decimals</p> <ul style="list-style-type: none"> <li>Comparisons and operations</li> <li>Percentages</li> </ul> <p>Practical applications in single and multi-step problem solving</p> <p>Time: equivalent and operations</p> <p>Money: equivalent and operations</p> <p>Interest: principal, rate, time</p> <p>Computing squares and cubes of binomials and trinomials</p> <p>Calculating square and cube roots</p> <p>Beginning statistics: data gathering, graphing, and analysis</p> <p>Ratios and proportions</p> <p>Number theory</p> <ul style="list-style-type: none"> <li>Divisibility rules</li> <li>Factors</li> <li>Multiples</li> <li>Primes</li> <li>Composites</li> <li>Estimation</li> <li>Basic mathematical laws</li> </ul> <p>Pre-algebra</p> <ul style="list-style-type: none"> <li>Symbols and order of operations</li> <li>Negative numbers</li> </ul>	<p>Life Science</p> <ul style="list-style-type: none"> <li>Kingdoms of life</li> <li>Animal/Plant classification</li> <li>Structure/Function of internal and external parts and systems</li> <li>Ecology</li> <li>Cell theory</li> <li>Life cycles</li> </ul> <p>Human body</p> <ul style="list-style-type: none"> <li>Senses</li> <li>Systems</li> <li>Health and nutrition</li> </ul> <p>Earth science</p> <ul style="list-style-type: none"> <li>Solar system</li> <li>Weather</li> <li>Astronomy</li> <li>Oceanography</li> <li>Geology and mineralogy</li> </ul> <p>Physical science</p> <ul style="list-style-type: none"> <li>Gravity</li> <li>Magnetism</li> <li>Light</li> <li>Sound</li> <li>Electricity</li> <li>Motion</li> <li>Heat</li> </ul> <p>Experiments and scientific method</p>	<p>Community meetings</p> <ul style="list-style-type: none"> <li>Conflict resolution</li> <li>Respect for self, peers, and environment</li> </ul> <p>Grace and courtesy</p> <ul style="list-style-type: none"> <li>Manners</li> <li>Classroom protocol</li> <li>Visitors</li> <li>Care of indoor and outdoor environments</li> </ul> <p>Community service</p> <ul style="list-style-type: none"> <li>Daily class jobs</li> <li>Recycling</li> <li>Social conscience and community projects</li> </ul> <p>Field Studies: related curricular studies</p> <p>Environmental trips</p> <ul style="list-style-type: none"> <li>Team building activities</li> <li>Interdisciplinary studies</li> </ul> <p>Time management</p> <ul style="list-style-type: none"> <li>Planning skills and work organization</li> </ul>	<p>History</p> <ul style="list-style-type: none"> <li>Fundamental needs of humans</li> <li>Creation of the universe</li> </ul> <p>Evolution of life and early humans</p> <p>Civilizations</p> <ul style="list-style-type: none"> <li>Ancient civilizations</li> <li>Mesopotamia and Egypt</li> <li>Greece and Rome</li> <li>Mesoamerica</li> <li>North/South America</li> <li>Native Americans</li> <li>American explorers</li> <li>Colonization</li> <li>American Revolution</li> <li>Westward expansion</li> </ul> <p>Geography</p> <ul style="list-style-type: none"> <li>Physical geography</li> <li>Continents</li> <li>Countries</li> <li>Advanced land and water forms</li> <li>Biomes of the world</li> <li>Cultural geography</li> <li>Regions</li> <li>Cultures</li> <li>Natural resources</li> <li>Economic geography</li> <li>Natural resources</li> <li>Imports/Exports</li> <li>Multicultural fair</li> </ul>	<p>Big 6 Research Model</p> <ul style="list-style-type: none"> <li>Identifying topics: key words, 5 Ws, source selection</li> <li>Locating sources: call numbers, digital search databases, Dewey</li> <li>Extracting information</li> <li>Using key words and headers</li> <li>Fact/opinion</li> <li>Reading tables and graphs</li> <li>Plagiarism and copyright</li> <li>Trash and treasure/Skim and scan</li> <li>Dot note taking</li> <li>Surveys and checklists</li> <li>Synthesizing data</li> <li>Graphic organizers, charts, tables</li> <li>Flip books, fan books, pop-ups</li> <li>Alternative delivery methods</li> <li>Self/ peer evaluation, surveys</li> </ul> <p>Selecting and using reference books</p> <ul style="list-style-type: none"> <li>Dictionaries and thesaurus: parts of speech, etymologies, definitions</li> <li>Almanacs</li> <li>Atlas: map types, scale, cardinal directions, latitude/longitude</li> <li>Encyclopedia: indices, articles, guide words, headers/subheaders</li> </ul> <p>Basic keyboarding and Microsoft Word</p> <p>Digital timelines</p> <p>Online Britannica and online citations</p> <p>Basic internet usage: key words, hyperlinks, online dictionaries, URLs</p>
Writing	Spanish	Phys. Education	Fine Arts	Music	Geometry
<p>Multi-step writing process for composition</p> <p>Prewriting activities, rough draft, revision, editing, final draf</p> <p>Compositions:</p> <ul style="list-style-type: none"> <li>Paragraph form</li> <li>Creative writing</li> <li>Expository writing</li> <li>Descriptive</li> <li>Narrative</li> <li>Persuasive</li> <li>Five paragraph essay</li> </ul> <p>Writing Journal</p> <p>Letter Writing</p> <p>Poetry</p>	<p>Vocabulary</p> <p>Sentence formation</p> <p>Verb conjugation</p> <p>Verb tenses</p> <p>Common phrases</p> <p>Dialogue creation and reading</p> <p>Hispanic culture</p> <p>Native speakers</p> <ul style="list-style-type: none"> <li>Current events</li> <li>Short story reading and comprehension</li> <li>Spanish word definitions</li> <li>Grammar through written work</li> </ul>	<p>Cardiovascular activities (i.e. pacing)</p> <p>Introduction to core strengthening</p> <p>Cooperative games</p> <p>Increase flexibility</p> <p>Foster good sportsmanship</p>	<p>Art principles and elements</p> <p>Expression through art materials and tools</p> <p>Design, development and creation of original artworks</p> <p>Use of a variety of media</p> <p>Art history</p> <p>Exploring art and artists through visuals and visitations</p> <p>Evaluating artwork (students and major artists)</p>	<p>Moving the body in integrated ways in folk dances</p> <p>Reading and notating simple and complex rhythm patterns</p> <p>Sight-reading pentatonic and extended pentatonic melodies using solfege and absolute note names in F, C, and G</p> <p>Playing simple accompaniments and melodies on pitched Orff instruments</p> <p>Playing simple rhythms on un-pitched instruments</p> <p>Vocal care and maintenance</p>	<p>Advanced study of nomenclature</p> <p>Geometric shapes: characteristics, measurement, and drawing</p> <p>Concepts</p> <ul style="list-style-type: none"> <li>Points, lines, and angles</li> <li>Surface and solids</li> </ul> <p>Properties</p> <ul style="list-style-type: none"> <li>Triangles and quadrilaterals</li> <li>Polygons and circles</li> </ul> <p>Congruence, similarity, equality, equivalence, symmetry</p> <p>Calculation: perimeter, area, volume</p> <p>Theorem of Pythagoras</p> <p>Measurement: length, weight, capacity, metric, and customary</p>