

# 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 <ul style="list-style-type: none"> <li>• Mesopotamia and Egypt</li> <li>• Greece and Rome</li> <li>• Mesoamerica</li> </ul> </li> <li>• North/South America <ul style="list-style-type: none"> <li>• Native Americans</li> <li>• American explorers</li> <li>• Colonization</li> <li>• American Revolution</li> <li>• Westward expansion</li> </ul> </li> </ul> <p>Geography</p> <ul style="list-style-type: none"> <li>• Physical geography <ul style="list-style-type: none"> <li>• Continents</li> <li>• Countries</li> <li>• Advanced land and water forms</li> <li>• Biomes of the world</li> </ul> </li> <li>• Cultural geography <ul style="list-style-type: none"> <li>• Regions</li> <li>• Cultures</li> <li>• Natural resources</li> </ul> </li> <li>• Economic geography <ul style="list-style-type: none"> <li>• Natural resources</li> <li>• Imports/Exports</li> </ul> </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 <ul style="list-style-type: none"> <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> </ul> </li> <li>• Synthesizing data <ul style="list-style-type: none"> <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> </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> </ul> <p>Grammar through written work</p>	<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>