

# CHIARAVALLE MONTESSORI SCHOOL

## Upper Elementary Curriculum

### Language Arts:

<b>Listening and Speaking</b> Learn to communicate effectively in large and small groups. Examples include use of writer's workshop, Poet's Punch presentations, research projects and daily class discussion.	<b>Reading</b> Develop an appreciation for a variety of literary forms including novels, short stories, poetry and others. Develop vocabulary and apply appropriate comprehension strategies to different texts including reference materials for research and library skills.	<b>Word Study</b> Understand correct expression and how words are built through use of writing paragraphs, topic sentences, outlining, word meaning and usage.	<b>Sentence Analysis/ Sentence Diagramming</b> Understand correct expression; specifically, how sentences are constructed.
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### Mathematics:

<b>Numbers/Operations</b> Apply knowledge of the basic operations to integers, fractions and decimals, moving away from concrete Montessori materials to abstract operation use.	<b>Decimals in Operations</b> Develop concepts and skills using decimals in operations (+, -, x, ÷) associated with the understanding of numbers and the place value system.	<b>Fractions in Operations</b> Use knowledge of fractions in operations (+, -, x, ÷) abstractly to solve problems.	<b>Geometry</b> Develop measurement concepts such as area, perimeter, volume and circumference using metric and standard units. Explore properties and relationships of geometric shapes.
<b>Order of Numbers</b> Develop understanding of history and foundation of mathematics.	<b>Problem-Solving</b> Gain experience in solving problems by selecting and matching strategies to given situations for checking accounts, charts and graphs, simple algebraic equations, estimation with whole numbers and decimals.	<b>Probability and Statistics</b> Use probability and statistics to collect and interpret data.	<b>Math and Science History Timeline</b> Understand the history of numeration and explore numeration of other cultures.

### Cultural Studies:

<b>Geography</b> Develop an understanding of the physical earth, land and water using longitude/latitude, land features, map reading, research and the Imaginary Island project.	<b>History</b> Understand the development of civilizations and cultures using civilization timelines for early humans, Mesopotamia, Egypt, Greece, Rome, Middle Ages, Age of the Explorers, North America and current events.	<b>Biology</b> Understand how plants and animals function through study of the five kingdoms and classification, functions of plants and animals, bacteria, viruses, DNA and genes, plant and animal cell study, study of the human body and health.	<b>Physics and Chemistry</b> Understand the basic elements of physics and chemistry, scientific experimentation and research. Subjects include the Big Bang and formation of the universe, stellar nuclear synthesis, chemical elements and the electromagnetic spectrum.	<b>Technology</b> Explore a variety of applications including electronic search strategies to find resources, supervised searches on the internet and supplemental research.
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