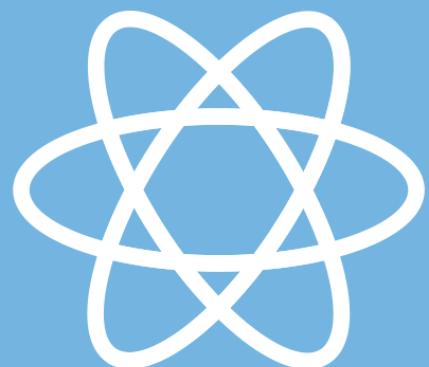
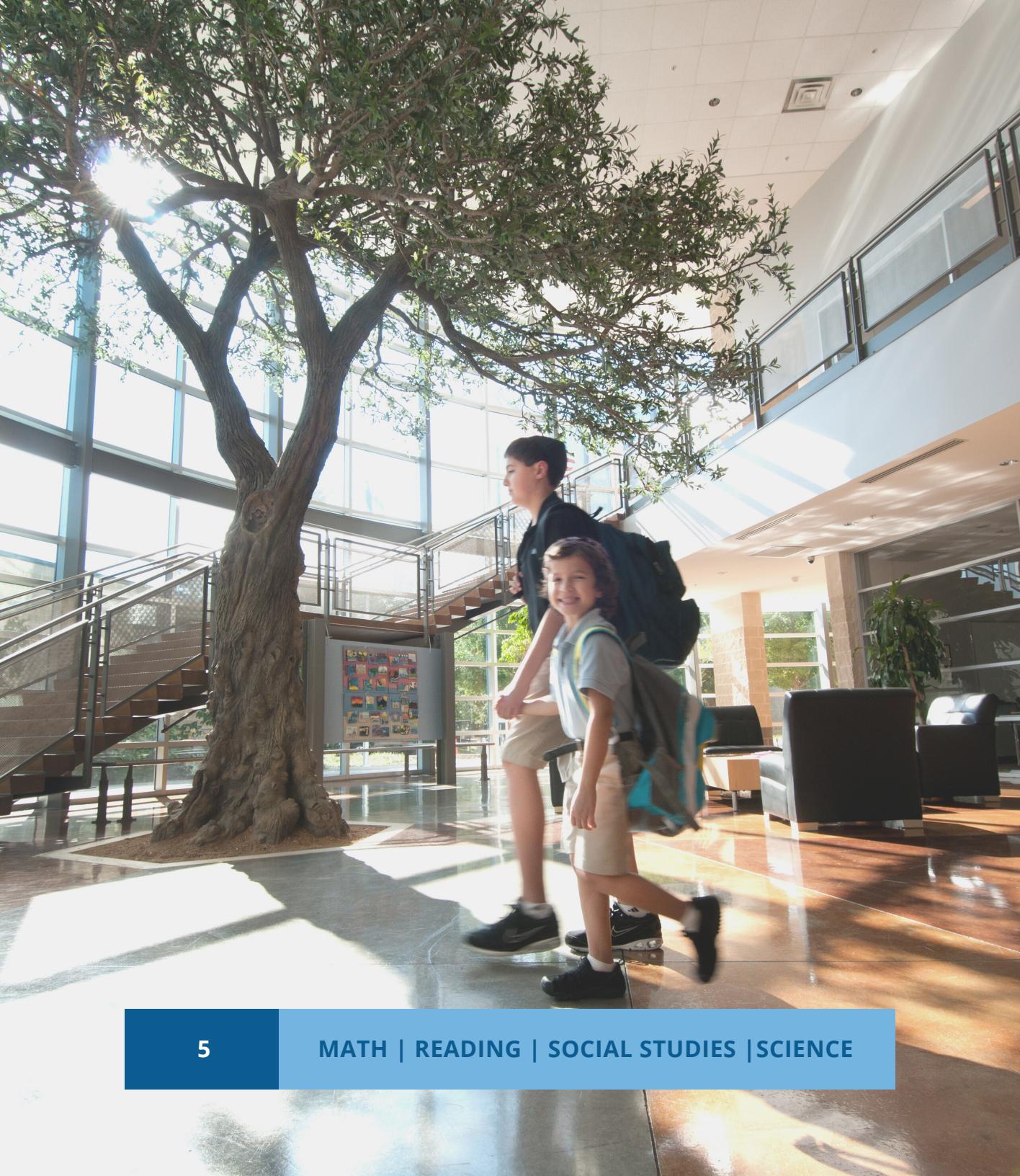


# WHAT YOUR CHILD WILL LEARN IN 5TH GRADE



**Akiba Yavneh  
Academy**

בֵּית סְפָר עֲקִיבָא יַבְנָה



Operations and Algebra	Numbers and Computation	Measurement and Data	Geometry
<h2>What Your Child Will Learn</h2>			
<ul style="list-style-type: none"><li>Algebra: Analyze Patterns and Relationships</li></ul>	<ul style="list-style-type: none"><li>Understand Place Value</li><li>Add and Subtract Decimals</li><li>Multiply Multi-Digit Whole Numbers</li><li>Multiply and Divide Decimals</li><li>Use Equivalent Fractions to Add and Subtract Fractions</li><li>Multiply and Divide Fractions</li></ul>	<ul style="list-style-type: none"><li>Understand Volume Concepts</li><li>Convert Measurements</li><li>Write and Interpret Numerical Expressions</li><li>Represent and interpret Data</li></ul>	<ul style="list-style-type: none"><li>Graph Points on the Coordinate Plane</li><li>Geometric Measurement: Classify Two-Dimensional Figures</li></ul>
<h2>What Your Child Will Do</h2>			
<ul style="list-style-type: none"><li>Students generate and analyze numerical patterns.</li><li>They identify a relationship between two patterns and graph the relationship on a coordinate plane.</li></ul>	<ul style="list-style-type: none"><li>Students expand their understanding of the place value system for whole numbers and decimals.</li><li>They read, write, and compare decimals to thousandths.</li><li>Students extend their understanding of multi-digit multiplication and division with whole numbers. They develop an understanding of operations with decimals.</li><li>Students use equivalent fractions as a strategy to add and subtract fractions with unlike denominators.</li><li>Students extend their understanding of multiplication with fractions. They are introduced to division of fractions by dividing with unit fractions.</li><li>Students represent and interpret data on a line plot, with an emphasis on data involving fractions. They apply their understanding of line plots and operations with fractions to solve problems.</li></ul>	<ul style="list-style-type: none"><li>Students explore concepts of volume measurement for rectangular prisms and some composite solid figures. They relate volume to multiplication and addition.</li><li>Students convert measurements within a measurement system and solve problems using measurement conversions.</li><li>Students use the Order of Operations to evaluate, write, and interpret numerical expressions with grouping symbols.</li></ul>	<ul style="list-style-type: none"><li>Students develop an understanding of the coordinate system. They graph ordered pairs in the first quadrant of the coordinate plane to solve problems.</li><li>Students classify triangles and quadrilaterals by their properties. They learn that the properties of a two-dimensional shape also belong to all subcategories of that shape.</li></ul>

Operations and Algebra	Numbers and Computation	Measurement and Data	Geometry
<h2>What You Will See</h2>			
<ul style="list-style-type: none"><li>• Use parentheses, brackets, or braces in numerical expressions</li><li>• Evaluate numerical expressions with parentheses, brackets, or braces</li><li>• Write numerical expressions that record calculations</li><li>• Interpret numerical expressions.</li><li>• Generate two numerical patterns using two given rules</li><li>• Identify relationships between corresponding terms in two numerical patterns</li><li>• Form ordered pairs from two numerical patterns</li><li>• Graph ordered pairs generated by two patterns</li></ul>	<ul style="list-style-type: none"><li>• Understand how the value of a digit in one place compares to the value in the place to its right or left</li><li>• Use exponents to denote powers of 10</li><li>• Explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10</li><li>• Read and write decimals to thousandths</li><li>• Compare, read and write decimals to thousandths using base-ten numerals and number names</li><li>• Use expanded form for decimals</li><li>• Compare decimals to thousandths using the symbols <math>&gt;</math>, <math>=</math>, and <math>&lt;</math></li><li>• Round decimals to any place</li><li>• Divide up to four-digit dividends by two-digit divisors</li><li>• Model division of up to four-digit dividends by two-digit divisors.</li><li>• Add and subtract decimals to hundredths</li><li>• Multiply and divide decimals to hundredths</li><li>• Add and subtract fractions with unlike denominators</li><li>• Add and subtract mixed numbers with unlike denominators</li><li>• Solve word problems involving addition and subtraction of fractions</li><li>• Solve word problems involving division of whole numbers with answers that are fractions or mixed numbers</li><li>• Multiply a whole number by a fraction</li><li>• Multiply a fraction by a fraction</li><li>• Relate multiplication of fractions and the area of a rectangle with fractional side lengths</li><li>• Explain the effect of multiplying a given number by a fraction greater than 1, less than 1, or equal to 1</li><li>• Solve real-world problems involving multiplication of fractions and multiplication of mixed numbers</li><li>• Divide whole numbers and unit fractions</li><li>• Solve real-world problems involving division of fractions and whole numbers</li></ul>	<ul style="list-style-type: none"><li>• Convert measurement units</li><li>• Use conversions to solve real-world problems</li><li>• Recognize volume as an attribute of solid figures</li><li>• Understand concepts of volume measurement</li><li>• Understand the concept of cubic unit</li><li>• Relate <math>n</math> unit cubes to a volume of <math>n</math> cubic units</li><li>• Measure volumes by counting in cubic inches and feet</li><li>• Measure volumes by counting unit cubes in improvised units</li><li>• Relate volume to the operations of multiplication and addition</li><li>• Solve real-world and mathematical problems involving volume</li><li>• Show that the volume of a right rectangular prism can be found by multiplying the edge lengths</li><li>• Show that the volume of a right rectangular prism can be found by multiplying the height by the area of the base</li><li>• Represent threefold whole-number products as volumes</li><li>• Use the formulas <math>V = l \times w \times h</math> and <math>V = b \times h</math> for rectangular prisms</li><li>• Find volumes of solid figures composed of two</li></ul>	<ul style="list-style-type: none"><li>• Solve problems involving fraction operations by using measurement data in line plots</li><li>• Make a line plot to display a data set of measurements in fractions of a unit</li><li>• Understand a coordinate system</li><li>• Graph points in the first quadrant of the coordinate plane</li><li>• Interpret coordinate values of points in the first quadrant of the coordinate plane</li><li>• Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category</li><li>• Classify two-dimensional figures in a hierarchy based on properties</li><li>• Use a Venn diagram to organize two-dimensional figures based on the attributes of the figures</li></ul>

# Reading/Writing - Being a Writer - Making Meaning

Reading Comprehension	Vocabulary/Spelling	Writing Craft	Language Skills and Conventions
<b>What Your Child Will Learn</b>			
<ul style="list-style-type: none"> <li>• The Reading Community</li> <li>• Using Text Features</li> <li>• Questioning</li> <li>• Analyzing Text Structure</li> <li>• Making Inferences</li> <li>• Determining Important Ideas and Summarizing</li> <li>• Synthesizing</li> </ul>	<ul style="list-style-type: none"> <li>• Context to determine word meanings</li> <li>• Use Dictionary, glossary, or thesaurus</li> <li>• Words with multiple meanings</li> <li>• Word parts used for understanding</li> </ul>	<ul style="list-style-type: none"> <li>• The Writing Community</li> <li>• The Writing Process</li> <li>• Personal Narrative</li> <li>• Fiction Expository</li> <li>• Nonfiction Functional Writing</li> <li>• Opinion Writing</li> <li>• Poetry</li> </ul>	<ul style="list-style-type: none"> <li>• Proofread and edit for conventions (e.g., grammar, usage, punctuation)</li> <li>• Proofread and edit for spelling</li> <li>• Citations</li> </ul>
<b>What Your Child Will Do</b>			
<ul style="list-style-type: none"> <li>• Use text features to find and understand information</li> <li>• Use questioning to think about expository texts</li> <li>• Use schema to think about all they know about a topic</li> <li>• Explore narrative text structure through discussions of plot, setting, character, conflict, and theme</li> <li>• Use questioning to think about narrative text</li> <li>• Make inferences and visualize to understand narrative text and poetry</li> <li>• Use a double-entry journal</li> <li>• Make inferences to understand narrative and expository texts</li> <li>• Make inferences to explore causal relationships in narrative and expository texts</li> <li>• Analyze expository text structure</li> <li>• Explore ways in which articles and functional texts are organized</li> <li>• Explore the use of cause and effect, chronological, and compare and contrast relationships in textbooks</li> <li>• Distinguish between important and supporting ideas in texts</li> <li>• Use important ideas to summarize</li> <li>• Synthesize by forming opinions and making judgments about texts</li> </ul>	<ul style="list-style-type: none"> <li>• Learn strategies for unlocking word meanings when they read independently</li> <li>• Use context clues to understand the meaning of a word</li> <li>• Recognizing synonyms and antonyms</li> <li>• Recognizing words with multiple meanings</li> <li>• Using Greek and Latin roots to determine word meanings</li> <li>• Segmenting and spelling by sounds</li> <li>• Recognizing patterns within words</li> <li>• Adding Inflection</li> <li>• Spelling by syllables</li> <li>• Adding prefixes and suffixes</li> <li>• Applying morphemic spelling knowledge</li> </ul>	<ul style="list-style-type: none"> <li>• Using sensory details</li> <li>• Writing engaging openings</li> <li>• Adding information about learning or change</li> <li>• Writing endings that draw a story's events to a close</li> <li>• Doing pre-research writing and narrowing research focus</li> <li>• Identifying effective keywords for an Internet search</li> <li>• Taking notes and organizing information by subtopic</li> <li>• Employing facts and examples related to the topic</li> <li>• Using transitional words and phrases</li> <li>• Creating text features</li> <li>• Writing interesting introductions</li> <li>• Writing author biography sections and bibliographies</li> </ul>	<ul style="list-style-type: none"> <li>• Use a series of commas to make the directions easier to follow</li> <li>• Identify complete sentences and compound sentences</li> <li>• Identify dependent and independent clauses</li> <li>• Combine sentences</li> <li>• Find fragments and run-on sentences</li> <li>• Use nouns and possessive nouns</li> <li>• Use subject and object pronouns</li> <li>• Use possessive pronouns</li> <li>• Explore noun-pronoun agreement</li> <li>• Explore verbs</li> <li>• Explore perfect verb tense</li> <li>• Explore progressive verb tense</li> <li>• Explore shifts in verb tense</li> <li>• Use subject-verb agreement</li> <li>• Explore adjectives</li> <li>• Explore adverbs</li> <li>• Use prepositions and prepositional phrases</li> <li>• Explore correlative conjunctions</li> </ul>

# Reading/Writing - Making Meaning - Being a Writer

Comprehension	Vocabulary/Spelling	Writing Craft	Language Skills and Conventions
<h2>What You Will See</h2>			
<ul style="list-style-type: none"><li>The students learn to connect what they know from their own experiences to texts before, during, and after a read-aloud. They also make connections between texts.</li><li>The students visualize to make sense of figurative language and deepen their understanding and enjoyment of poems and stories.</li><li>The students wonder and ask questions before, during, and after a read-aloud to make sense of a text.</li><li>The students identify features of expository texts and use those features to help them understand the texts.</li><li>The students identify features of expository texts and use those features to help them understand the texts.</li><li>The students explore which ideas in texts are important and support their thinking with evidence from the texts.</li><li>The students use story elements to help them think about stories.</li><li>The students identify important ideas and use those ideas to develop oral and written summaries.</li><li>The students synthesize to form opinions and make judgments about texts.</li></ul>	<ul style="list-style-type: none"><li>Take weekly spelling or vocabulary tests</li><li>Using the prefixes dis- pre- un and -inter to determine word meanings</li><li>Using the suffixes -er, -ous, -ly, less, -ful, -tion, and -ment to determine word meanings</li><li>Using context to determine word meanings</li><li>Recognizing shades of meaning</li><li>Recognizing idioms</li><li>Recognizing adages</li><li>Using a print and online dictionaries to determine word meanings</li><li>Using a print and online thesaurus to determine word meanings</li><li>Using a glossary to determine word meanings</li><li>Build their speaking and listening skills</li><li>Recognize proverbs</li></ul>	<ul style="list-style-type: none"><li>Draft many pieces in a variety of genres</li><li>Select a draft to develop and publish</li><li>Revise drafts Proofread for spelling and conventions</li><li>Write final versions and publish</li><li>Write about significant experiences that resulted in learning or change</li><li>Use sensory details</li><li>Proofread for consistent verb tense</li><li>Explore strong opening sentences and endings that draw a story's events to a close.</li><li>Develop interesting plots that make sense</li><li>Informally explore conflict in plot</li><li>Use descriptive, sensory details to convey character and setting</li><li>Develop character through dialogue</li><li>Explore verb tenses and first- and third-person points of view and apply them consistently</li><li>With a partner, research and write about a nonfiction topic of interest</li><li>Take research notes and organize them by topic</li></ul>	<ul style="list-style-type: none"><li>Identifying and correcting commonly misused words (there/their/they're)</li><li>Maintaining consistency in verb tenses</li><li>Recognizing and correcting sentence fragments</li><li>Recognizing and correcting run-on sentences</li><li>Proofreading for spelling, punctuation, and grammar</li><li>Citing resources</li><li>Recognizing and correcting sentence fragments</li><li>Placing commas after introductory words, phrases, and clauses</li><li>Using prepositions and prepositional phrases</li><li>Exploring first- and third-person points of view</li><li>Punctuating speech</li><li>Formatting and punctuating the parts of informal and formal letters</li><li>Using correlative conjunctions, such as either/or and both/and</li><li>Revisions that make sense and improve their writing</li><li>Descriptive sensory details and consistent verb tense throughout the piece</li><li>Assess their own writing</li><li>Proofread their writing</li><li>Use either/or or and/bo</li></ul>

# Social Studies

History	Geography	Civics	Economics
<h2>What Your Child Will Learn</h2>			
<ul style="list-style-type: none"><li>• The Lands and Native Peoples of North America</li><li>• The Age of Exploration</li><li>• A changing Continent</li><li>• The Road to War</li><li>• The American Revolution</li><li>• A Growing Nation</li><li>• The Civil War and Reconstruction</li></ul>	<ul style="list-style-type: none"><li>• The Lands and Native Peoples of North America</li><li>• The Age of Exploration</li><li>• A changing Continent</li><li>• The Road to War</li><li>• The American Revolution</li><li>• A Growing Nation</li></ul>	<ul style="list-style-type: none"><li>• The Lands and Native Peoples of North America</li><li>• The Age of Exploration</li><li>• A changing Continent</li><li>• The Road to War</li><li>• The American Revolution</li><li>• Forming a New Government</li><li>• A Growing Nation</li><li>• The Civil War and Reconstruction</li></ul>	<ul style="list-style-type: none"><li>• The Lands and Native Peoples of North America</li><li>• The Age of Exploration</li><li>• A changing Continent</li><li>• The Road to War</li><li>• The American Revolution</li><li>• A Growing Nation</li><li>• The Civil War and Reconstruction</li></ul>
<h2>What Your Child Will Do</h2>			
<ul style="list-style-type: none"><li>• How did the characteristics of early Native American groups develop?</li><li>• Why did the Spanish explore the Americas?</li><li>• How did the early English settlers cooperate and clash with Native Americans?</li><li>• What caused the conflict between Great Britain, France, and Native Americans?</li><li>• What increased tensions between Great Britain and the Colonists?</li><li>• How did the American revolution start?</li><li>• What were the defining moments of the war?</li><li>• Who were the people living in the early United States?</li><li>• What was it like to live during the Civil War?</li><li>• What conflicts and compromises shaped the north and south?</li><li>• How did key moments lead to the end of the Civil War?</li></ul>	<ul style="list-style-type: none"><li>• How were native peoples of the Pacific Coast shaped by their surroundings?</li><li>• How did the Eastern woodlands impact the lives of early people?</li><li>• How did European exploration affect the Americas?</li><li>• How did the great plains influence the traditions of the people living there?</li><li>• How did early European settlers compete with one another and Native Americans?</li><li>• What was it like to live during the Revolution?</li><li>• How did westward expansion impact people living in the United States?</li></ul>	<ul style="list-style-type: none"><li>• How did Spanish exploration change the lives of the people in the Americas?</li><li>• What was life like for people in New England?</li><li>• What shaped life in the middle colonies?</li><li>• What were the views of the Patriots, the Loyalists, and the British?</li><li>• Why is the Declaration of Independence still important today?</li><li>• What was the articles of Confederation and why did it fail?</li><li>• How does the Constitution set up our Government framework?</li><li>• How does the Constitution and the Bill of Rights impact citizens?</li><li>• How did early decisions shape the nation?</li><li>• What tensions about slavery caused the Civil War?</li><li>• How did each side plan on winning the Civil War?</li></ul>	<ul style="list-style-type: none"><li>• How did the people of the desert southwest meet their needs?</li><li>• How did Economics impact people in the southern colonies?</li><li>• What did the Colonist gain by winning the war?</li><li>• How did advancements in technology and transportation shape the nation?</li><li>• What challenges did the United States face after the Civil War?</li></ul>

# Social Studies

History	Geography	Civics	Economics
<h2>What You Will See</h2>			
<ul style="list-style-type: none"><li>Can explain the history behind the Spanish exploration of America</li><li>Evaluate whether the Spanish exploration had a mostly positive or mostly negative effect on the Americas</li><li>Write and illustrate a short narrative the relations between a specific group of European settlers and the Native Americans they encountered</li><li>A short essay from the view of a Patriot, Loyalist, African American, or Native American outlining his or her reasons for not wanting a war with Britain</li><li>A time line that will focus on a person, idea or event the had an impact during the American Revolution and show how our country would be different today</li><li>A museum gallery that depicts the United States in it's early years then explain how the painting works together to tell a story about the character and spirit of the United States</li></ul>	<ul style="list-style-type: none"><li>Create a poster or diorama describing the Native people's daily life including how they obtained water, food, tools, clothing, and shelter</li><li>Design a trading card of a Spanish explorer that depicts facts and explains their impact on the lives of the Native American's</li><li>The short essay will identify the effects of their relationship on the Native American's way of life as well as the benefits or setbacks the Europeans experienced</li><li>A time line that will focus on a person, idea or event the had an impact during the American Revolution and show how our country would be different today</li></ul>	<ul style="list-style-type: none"><li>Create a poster or diorama describing the Native people's religious and/or cultural traditions and government.</li><li>The story will identify the effects of their relationship on the Native American's way of life as well as the benefits or setbacks the Europeans experienced.</li><li>A time line that will focus on a person, idea or event the had an impact during the American Revolution and show how our country would be different today</li><li>A new amendment to the Constitution that has a good case for and against it</li><li>A news show about the Civil War and reconstruction including fictional interviews with people that lived during these times</li></ul>	<ul style="list-style-type: none"><li>Create a poster or diorama describing the Native people's Economy</li><li>Write and illustrate a short narrative that includes the economic impact for the people in the southern colonies</li><li>A short essay from the view of a Patriot, Loyalist, African American, or Native American outlining his or her reasons for not wanting a war with Britain.</li><li>A time line that will focus on a person, idea or event the had an impact during the American Revolution and show how our country would be different today</li></ul>

# Science

Scientific Process Skills	Systems and Subsystems in Life Science	Models, Patterns, and Properties	Causes and Effects
<b>What Your Child Will Learn</b>			
<ul style="list-style-type: none"> <li>• Scientists help us understand the world around us.</li> <li>• Scientists do experiments and make observations.</li> <li>• They use evidence to support their ideas.</li> </ul>	<ul style="list-style-type: none"> <li>• The human body is made up of multiple interacting systems: Circulatory, Digestive, Respiratory and Muscular systems.</li> </ul>	<ul style="list-style-type: none"> <li>• Earth's water cycle</li> <li>• Earth's rotation and orbit's</li> <li>• Stars</li> <li>• Earth's sphere's: Geosphere, Hydrosphere, Atmosphere and Biosphere</li> <li>• Earth's water supply</li> </ul>	<ul style="list-style-type: none"> <li>• Chemical Changes</li> <li>• Matter as a substance with particles.</li> <li>• Matter has properties: Magnetism, Density and Solubility</li> <li>• Food Webs</li> <li>• Food as Energy</li> </ul>
<b>What Your Child Will Do</b>			
<ul style="list-style-type: none"> <li>• Students will observe and conduct investigations.</li> <li>• Students will discover and record data.</li> <li>• Learn lab safety procedures</li> <li>• Learn how to use technology and science equipment</li> <li>• Verbalize science inquiries and conclusions</li> </ul>	<ul style="list-style-type: none"> <li>• Develop a model to explain how a human body system functions</li> <li>• Use evidence to explain how the human body system works</li> <li>• Obtain information from media sources to explain how human body systems function individually and together</li> </ul>	<ul style="list-style-type: none"> <li>• Students create, observe, record and analyze findings and explanations in a water cycle modeling activity.</li> <li>• Students create a pictograph or chart revealing patterns in the relationship between the stars visible in the night sky and the time of year indicative of a relationship between the motion of the Earth and the Sun (extension).</li> <li>• Students build and use planispheres to synthesized understanding related to distances of stars and orbit Students explore various materials to be able to describe and define each sphere.</li> <li>• Students think about different ways two or more spheres interact through Earth's systems and processes.</li> <li>• Students think about the humans in the biosphere and how our actions impact all of Earth's spheres.</li> <li>• Students focus on recycling as a method for reducing human impact on Earth's spheres.</li> <li>• Describe how the distribution of water throughout Earth impacts human consumption and water quality.</li> </ul>	<ul style="list-style-type: none"> <li>• Chemical and physical reactions</li> <li>• Observe and compare relative hardness, density, solubility and other properties of various materials</li> <li>• Food chains</li> <li>• Conservation of matter</li> <li>• Matter</li> <li>• Photosynthesis</li> <li>• Nutrients from food as a source of energy to survive</li> <li>• Observing materials in solid, liquid and gaseous forms</li> </ul>

# Science

Scientific Process Skills	Systems and Subsystems in Life Science	Models, Patterns, and Properties	Causes and Effects
<h2>What You Will See</h2>			
<ul style="list-style-type: none"><li>• Chart of Safety Rules and Symbols</li><li>• Will make Graphic Organizers</li><li>• Develop graphs, tables, and charts of data Keep a science folder or journal</li></ul>	<ul style="list-style-type: none"><li>• Explain how multiple body systems interact with each other to help keep the body functioning.</li></ul>	<ul style="list-style-type: none"><li>• Identify processes in the water cycle.</li><li>• Create water cycle models</li><li>• Students explore patterns related to night and day, apparent motion of the sun, shadow lengths, changing visible stars and constellations, Foucault's pendulum, calendars and time zones.</li><li>• Students recognize the immense size of stars and distances in the universe and attempt to comprehend these relatively and concretely.</li><li>• Students develop simple models (labeled sketches) in which they identify all components involved in interactions between two or more of Earth's spheres.</li><li>• Describe the different causes of poor water quality and its effect on the environment, particularly involving living things that depend on water for survival.</li></ul>	<ul style="list-style-type: none"><li>• Students use new knowledge to think about how they would investigate a reaction to determine if it causes a chemical or physical change.</li><li>• Use standard units of measure to make slime</li><li>• Students recognize that energy is transferred through ecosystems and between plants and animals as food and through decomposition.</li><li>• Students observe the interactions between the components of an ecosystem.</li><li>• Students use standard units when working with weights.</li><li>• Students measure physical quantities while following directions to complete an investigation.</li><li>• Students observe multiple scenarios in which the conservation of matter is consistent.</li><li>• Explain how energy is transferred from the Sun to a plant, or from one organism to another as a food source.</li><li>• Students use the properties of matter as evidence for small particles that make up the materials around us.</li></ul>