

	Reading - Direct Instruction	Mathematics - Saxon	Science - Core Knowledge	History - Core Knowledge
August/ September	<p>Decoding Vocabulary Literal Comprehension Inferential Comprehension Literary Skills Study Skills</p> <p>Deductions Sentence analysis Punctuation Editing Paragraph writing</p>	<p>1) Counting – by 2’s, 3’s, 4’s, 5’s, 7’s,10’s</p> <p>2) Rounding numbers</p> <p>3) Odd and even numbers</p> <p>4) Addition facts</p> <p>5) Fractional parts</p> <p>6) Sequencing</p> <p>7) Geometry</p> <ul style="list-style-type: none"> • Polygons • Congruence <p>8) Measurement</p> <ul style="list-style-type: none"> • Elapsed time • Date • Time to ½ hour <p>9) Graphing – bar graph and data</p>	<p>The Weather</p> <ul style="list-style-type: none"> • Cloud formation and different types of clouds • Water cycle (evaporation, condensation, precipitation) • Wind • Seasons 	<p>World Geography</p> <ul style="list-style-type: none"> • Cardinal directions • The equator • Northern and Southern Hemispheres • North and South Poles • The seven continents • Pacific, Atlantic, and Indian Oceans • Canada, United States, Mexico, and Central America • Keys and legends <p>American Civilization – Beginning of the United States</p> <ul style="list-style-type: none"> • The Constitution • The Bill of Rights • The thirteen colonies • The structure of the United States Government (President, Congress, Supreme Court) • The rationale for rules, laws, and a constitution
October	<p>Decoding Vocabulary Literal Comprehension Inferential Comprehension Literary Skills Study Skills</p> <p>Deductions Sentence analysis Punctuation Editing Paragraph writing</p>	<p>1) Counting – by 2’s, 3’s, 4’s, 5’s, 7’s,10’s</p> <p>2) Rounding numbers</p> <p>3) Odd and even numbers</p> <p>4) Addition facts</p> <p>5) Fractional parts</p> <p>6) Sequencing</p> <p>7) Geometry</p> <ul style="list-style-type: none"> • Polygons • Congruence <p>8) Measurement</p> <ul style="list-style-type: none"> • Elapsed time • Date • Time to ½ hour <p>9) Graphing – bar graph and data</p>	<p>Seasonal Cycles and Changes</p> <ul style="list-style-type: none"> • Cause and effect of seasonal changes (i.e. soil and air warming in spring) • Earthworms • Birds of Massachusetts • Migration • Hibernation • Effects of seasons on animals • Food webs 	<p>American Civilization – Beginning of the United States - the war of 1812</p> <ul style="list-style-type: none"> • Dolly Madison • Francis Scott Key and The Star Spangled Banner • Battle of New Orleans • American Flag • 1812 Overture • Role of battleships <p>World Geography</p> <ul style="list-style-type: none"> • United States in 1812 compared to present

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				<ul style="list-style-type: none"> • Great Lakes, Atlantic Ocean, Pacific Ocean, Chesapeake Bay • Louisiana Purchase, Oregon Territory • Europe, France, England • Islands (England, Australia, Antarctica) • Gulf of Mexico, New Orleans, Louisiana • Peninsulas and bays
November	Decoding Vocabulary Literal Comprehension Inferential Comprehension Literary Skills Study Skills Deductions Sentence analysis Punctuation Editing Paragraph writing Story writing Letter writing	1) Counts by 12's 2) Orders 2-and3- digit numbers 3) Number sentences 4) Square numbers 5) Properties of 0,1 in division and multiplication 6) Mental computation 7) Mastery of addition and subtraction facts 1-9 8) Addition of two digit numbers 9) Multiplies by 1,7,10 10) Geometry <ul style="list-style-type: none"> • Line segments • Symmetry • Perimeter 11) Measurement <ul style="list-style-type: none"> • Time • Thermometer • Capacity • Length 12) Graphing – bar and pictograph 13) Comparative symbols <,>=	Simple Tools and Machines <ul style="list-style-type: none"> • Tools and hardware (nails and screws) • Simple machines (lever) • Elijah McCoy 	Continuation from previous month

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December	<p>Decoding Vocabulary Literal Comprehension Inferential Comprehension Literary Skills Study Skills</p> <p>Deductions Sentence analysis Punctuation Editing Paragraph writing Story writing Letter writing</p>	<p>Continue previous skills</p> <ol style="list-style-type: none"> 1) Counts by 12's 2) Orders 2-and3- digit numbers 3) Number sentences 4) Square numbers 5) Properties of 0,1 in division and multiplication 6) Mental computation 7) Mastery of addition and subtraction facts I-9 8) Addition of two digit numbers 9) Multiplies by 1,7,10 10) Geometry <ul style="list-style-type: none"> • Line segments • Symmetry • Perimeter 11) Measurement <ul style="list-style-type: none"> • Time • Thermometer • Capacity • Length 12) Graphing – bar and pictograph 13) Comparative symbols <, >, = 	<p>Simple Tools and Machines</p> <ul style="list-style-type: none"> • Pulleys • Wheels and axles • Friction • Incline planes • Wedges 	<p>American Civilization - Americans move west</p> <ul style="list-style-type: none"> • Robert Fulton and steamboat • The Trail of Tears • The Oregon Trail • The Pony Express • The Transcontinental Railroad <p>Geography</p> <ul style="list-style-type: none"> • Features (mountain, valley, desert, oasis, prairie, plateau, river)
January	<p>Decoding Vocabulary Literal Comprehension Inferential Comprehension Literary Skills Study Skills</p> <p>Deductions Sentence analysis Punctuation Editing Paragraph writing Story writing Letter writing</p>	<p><i>Continue previous skills</i></p> <ol style="list-style-type: none"> 1) Counts by 12's 2) Orders 2-and3- digit numbers 3) Number sentences 4) Square numbers 5) Properties of 0,1 in division and multiplication 6) Mental computation 7) Mastery of addition and subtraction facts I-9 8) Addition of two digit numbers 9) Multiplies by 1,7,10 10) Geometry <ul style="list-style-type: none"> • Line segments • Symmetry • Perimeter 	<p>Magnets</p> <ul style="list-style-type: none"> • Properties of magnets • Magnetic fields • Magnetism – ability to act through different material • Properties of a compass • Magnetic and non-magnetic materials 	<p>American Civilization – The Civil War</p> <ul style="list-style-type: none"> • Life in the United States in the 1850's, including cities, railroads, communication and immigration • Differences between the North and the South • Slavery • Abraham Lincoln • The invention of the telegraph by Samuel Morse • Underground Railroad • Harriet Tubman • Robert E. Lee and Ulysses S. Grant

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		11) Measurement <ul style="list-style-type: none"> • Time • Thermometer • Capacity • Length 12) Graphing – bar and pictograph 13) Comparative symbols <,>>=		Geography <ul style="list-style-type: none"> • Union and Confederate States • Cities of the United States • Railroads • Underground Railroad
February	Decoding Vocabulary Literal Comprehension Inferential Comprehension Literary Skills Study Skills Deductions Sentence analysis Punctuation Editing Paragraph writing Story writing Letter writing	<i>Continue previous skills</i> 1) Counts by 100's, ½'s,, ¼'s 2) Ordinal position 3) Roman Numerals 4) Multiples 5) Square roots 6) Addition and subtraction of money 7) Compares and orders fractions 8) Mixed numbers 9) Adds and subtracts fractions 10) Geometry – area 11) Measurement <ul style="list-style-type: none"> • Length and distance • Customary units • Mass 12) Probability	Body Systems <ul style="list-style-type: none"> • Cellular makeup • Digestive system (including teeth, saliva, taste buds, esophagus, stomach) • Excretory system (including small and large intestines) • Liver • Kidneys • Food and nutrition 	American Civilization - Immigration <ul style="list-style-type: none"> • Reasons people immigrated to North America • Routes taken by immigrants from country of origin through Ellis Island • Reasons immigrants settled in certain areas • Naturalization • Statue of Liberty • Meaning of “e pluribus unum” • Types of transportation taken by immigrants in the past compared to today Geography <ul style="list-style-type: none"> • Major cities where immigrants settled • Central America/West Indies • North America, Africa, Europe
March	Decoding Vocabulary Literal Comprehension Inferential Comprehension Literary Skills Study Skills Deductions Sentence analysis Punctuation Editing Paragraph writing Story writing Letter writing	<i>Continue previous skills</i> 1) Counts by 100's, ½'s,, ¼'s 2) Ordinal position 3) Roman Numerals 4) Multiples 5) Square roots 6) Addition and subtraction of money 7) Compares and orders fractions 8) Mixed numbers 9) Adds and subtracts fractions 10) Geometry – area 11) Measurement <ul style="list-style-type: none"> • Length and distance 	Life Cycles <ul style="list-style-type: none"> • Plant life cycle (seeds, pollination) • Chicken life cycle • Frog life cycle • Darkling Beetle life cycle (metamorphosis) • Ladybug life cycle • Butterfly life cycle 	Immigration continued

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		<ul style="list-style-type: none"> • Customary units • Mass 12) Probability		
April	Decoding Vocabulary Literal Comprehension Inferential Comprehension Literary Skills Study Skills Deductions Sentence analysis Punctuation Editing Paragraph writing Story writing Letter writing	<i>Continue previous skills</i> 1) Place value 2) Estimation 3) Prime numbers and factors 4) Associative and commutative properties 5) Multiplication and division facts 1-9 6) Mental computation 7) Divides a 2-digit number by a 1-digit number 8) Points on coordinate planes 9) Geometry <ul style="list-style-type: none"> • Parallel, intersecting, perpendicular lines • Acute, right and obtuse angles • Triangles • Rotations, translations, reflections • 3 dimensional objects 10) Measurement <ul style="list-style-type: none"> • Metric units • Mapping scale • Volume 	Insects <ul style="list-style-type: none"> • Types of common insects • Anatomy of insects • Metamorphosis • Habitat and behavior of insects • Interdependency of honeybees and flowering plants 	American Civilization –Famous People <ul style="list-style-type: none"> • Mary McLeod Bethune • Jackie Robinson • Rosa Parks • Martin Luther King, Jr. • Cesar Chavez • Clara Barton • Eleanor Roosevelt • Susan B. Anthony <i>Geography</i> <ul style="list-style-type: none"> • Making a reading a legend
May	Decoding Vocabulary Literal Comprehension Inferential Comprehension Literary Skills Study Skills Deductions	<i>Continue previous skills</i> 1) Place value 2) Estimation 3) Prime numbers and factors 4) Associative and commutative properties 5) Multiplication and division facts 1-9 6) Mental computation	Insects <ul style="list-style-type: none"> • Silkworms • Positive and negative effects of insects on humans (locust) • Insect behavior and disease (fleas, houseflies, mosquitoes) • Role of insects in food web 	Asia – India – China - Japan <ul style="list-style-type: none"> • India (geography, climate, culture, caste system) • Hinduism • Buddhism • China (geography, Confusious, Emperor Ch'in shih Huang Ti, The Great Wall, Chinese New Year)

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	<p>Sentence analysis Punctuation Editing Paragraph writing Story writing Letter writing</p>	<p>7) Divides a 2-digit number by a 1-digit number 8) Points on coordinate planes 9) Geometry <ul style="list-style-type: none"> • Parallel, intersecting, perpendicular lines • Acute, right and obtuse angles • Triangles • Rotations, translations, reflections • 3 dimensional objects 10) Measurement <ul style="list-style-type: none"> • Metric units • Mapping scale • Volume </p>		
June	<p>Decoding Vocabulary Literal Comprehension Inferential Comprehension Literary Skills Study Skills</p> <p>Deductions Sentence analysis Punctuation Editing Paragraph writing Story writing Letter writing</p>	<p><i>Continue previous skills</i> 1) Place value 2) Estimation 3) Prime numbers and factors 4) Associative and commutative properties 5) Multiplication and division facts 1-9 6) Mental computation 7) Divides a 2-digit number by a 1-digit number 8) Points on coordinate planes 9) Geometry <ul style="list-style-type: none"> • Parallel, intersecting, perpendicular lines • Acute, right and obtuse angles • Triangles • Rotations, translations, reflections • 3 dimensional objects 10) Measurement <ul style="list-style-type: none"> • Metric units • Mapping scale • Volume </p>	<p>Insects <ul style="list-style-type: none"> • Silkworms • Positive and negative effects of insects on humans (locust) • Insect behavior and disease (fleas, houseflies, mosquitoes) • Role of insects in food web </p>	<p>World Civilizations – Ancient Greece <ul style="list-style-type: none"> • Great philosophers (Socrates, Plato, Aristotle) • Archimedes’ principle • Alexander the Great • Origins of the Olympic games • Life in Athens and Sparta during ancient times • Persian Wars • Legacies of Ancient Greece (architecture, sculptures, science, and democracy) <p>Geography <ul style="list-style-type: none"> • Greece and surrounding bodies of water • Location of Athens and Sparta • Path taken by Alexander the Great through the Persian Empire </p> </p>

Reading— Reading instruction takes place in large groups based on individual student skill. Placement tests are used at the beginning of the year to accurately assign students to groups and then given throughout the year to determine mobility within the groups. As a result, not all students in Second grade follow the same course of study at the same pace. Strong decoding skills are combined with comprehension strategies to enable students to understand what they read and make stories come alive. The goal is for all students to be confident, strategic, independent readers. The following concepts and standards are addressed in Second Grade, yet do not follow the same sequence of study for all students. As a result, some of the skills noted below may have carried over from First grade for some students and may carry over to Third Grade for others, depending on students' level of mastery

Mathematics — The math program provides students with a carefully sequenced development of concepts and time to practice skills in subsequent lessons. Topics are introduced and students are given time to practice, review and build upon these concepts as they learn new ones. Due to the spiraling nature of the curriculum, most of the skills and standards are addressed throughout the year. Each lesson consists of a morning meeting in which students practice skills related to time, weather, counting, patterning, graphing, money and problem solving. Later in the day, the math lesson introduces a new concept and allows children time to practice and review previous skills. Students are also expected to complete daily guided practice sheets at home.

History and Geography- In the Second grade, the History and Geography curriculum focuses on American Civilization, Asia, and Ancient Greece. Students will learn about the history of the United States from its origin to the Civil War, the people who have populated the country, and the content and purpose of the founding documents. Student will also examine the wealth of contribution made by other cultures. Within the area of Geography, students will continue to build on their spatial understanding and their geographic vocabulary

Science- The Science curriculum in the Second grade will explore a variety of topics in Life Science, Physical Science, Technology and Engineering, and Earth and Space Science. Instruction will focus on hands-on experiences and observation. Students will conduct experiments and read literature that will broaden their understanding of scientific concepts.

Character Education- The character education program at Mystic Valley Regional Charter School is literature based. Students listen to, read and discuss literature and how the stories exemplify the virtue of the month. The goal is to cultivate character through the promotion of basic moral, civic and intellectual virtues.¹

Music and Visual Arts- Music and the arts are an integral part of the curriculum focusing on creativity and active participation. Instruction is non-competitive and provides significant opportunities to sing, dance, listen to music, play act, listen to and read poetry, draw, paint, and create. In addition, children are also exposed to great pieces of art and music.

¹ Klee, Mary Beth; Core Virtues 2000