

**Pentucket Regional Middle School
7 Green Team Curriculum Map**

Month	Science	English	Math	Social Studies
September	<p>Content: Introduction to Science Characteristics of Living Things Scientific Method Ecosystems (of the Rocky Coast)</p> <ul style="list-style-type: none"> ◆ Food Chains/Webs ◆ Introduction to Scientific Method <p>Skills: Lab safety (ongoing all year) <ul style="list-style-type: none"> • Proper use of Lab Equipment Reading Scales - Metric Units Organization (ongoing all year) Note taking (ongoing all year) Listening (ongoing all year) Writing Hypothesis (ongoing all year) Creating a Data table (ongoing all year) Writing across the curriculum (ongoing all year)</p> <p>Assessment: Homework Lab Work Presentations Quizzes Writing Assignments Tests</p>	<p>Content: Grammar Subject/Predicate (Complete & Simple) Nouns, Adjectives Capitalization Punctuation Literature Short Story Elements “Rip Van Winkle” Composition Paragraph Structure On-demand journal writing throughout year Descriptive Writing Spelling Lists & practice all year Vocabulary Taught within context of literature all year</p> <p>Skills:</p> <ul style="list-style-type: none"> • explain plot • express reaction • recognize literary techniques • recognize principal parts of a sentence and all 8 parts of speech • write/edit compositions • compare/contrast story to film • organization <p>Assessment: Informal</p> <ul style="list-style-type: none"> • teacher observation, and classroom discussion <p>Formal</p> <ul style="list-style-type: none"> • quizzes, test, projects, and quarterlies 	<p>Content: Fractions/decimals Percents Operations of F?D% Statistics/Graphing Multiply/divide by powers of 10 Estimation</p> <p>Skills: Computing fractions and decimals Constructing & interpreting graphs Writing across the curriculum (ongoing all year)</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Writing Assignments Class Discussion & Questioning</p>	<p>Content: <u>Introduction:</u> Definitions and understanding concepts</p> <p><i>Five Themes of Geography.</i> <i>Maps, longitude and latitude, time zones, graphs, and charts.</i></p> <p>Skills: Reading and analyzing maps, graphs, and charts; organization; effective note taking; critical thinking.</p> <p>NB: Students will be concurrently using this alternative curriculum with the <u>Mapping the World by Heart</u> program to emphasize the political and physical geography of the world. This is a curriculum that by year’s end prepares students to accurately draw the world from memory.</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Writing Assignments Class Discussion & Questioning</p>

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October	<p>Content: Ecosystems of the Rocky Coast continued - ♦ Scientific Classification of Organisms</p> <p>Skills: Using a Dichotomous Key Using a triple beam balance</p> <p>Assessment: Homework Lab Work Presentations Quizzes Writing Assignments Tests</p>	<p>Content: Grammar Pronouns (possessive, personal, subject & object forms) Literature “Legend of Sleepy Hollow” Composition Stages of the Writing Process Descriptive Writing Spelling Lists & practice all year Vocabulary Taught within context of literature all year</p> <p>Skills:</p> <ul style="list-style-type: none"> • express reaction • recognize literary techniques • recognize principal parts of a sentence and all 8 parts of speech • write/edit compositions • organization <p>Assessment: Informal</p> <ul style="list-style-type: none"> • teacher observation, and classroom discussion <p>Formal</p> <ul style="list-style-type: none"> • quizzes, test, projects, and quarterlies 	<p>Content: Problem Solving F?D/% continue Measurement - standard & Metric Mult/division by powers of 10 Estimation Properties</p> <p>Skills: Measuring Converting Applying measurements to real life within systems</p> <p>Assessment: Homework Quizzes/Tests Observation/Dialogue - individual & group Presentation - oral & written Writing Assignments Quarterly Exam</p>	<p>Content: <u>Physical geography:</u> (How physical Earth “works.” This integrates with 8th grade Earth science)</p> <p>Land forms, climate, weather, water cycle, plate tectonics, weathering, and erosion.</p> <p>Skills: Reading and analyzing maps, graphs, and charts; organization; effective note taking; critical thinking; Data gathering, drawing conclusions, oral presentations; sequencing.</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Writing Assignments Class Discussion & Questioning</p>

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November	<p>Content: Cell Structure and Organization Introduction to Cell Chemistry</p> <p>Skills: Model Building Use of Microscope Preparation of wet mount slide Research and Presentation</p> <p>Assessment: Homework Lab Work Presentations Quizzes Writing Assignments Tests</p>	<p>Content: Grammar Verbs (Action) Direct Objects Adverbs Prepositions/Prepositional Phrases Literature Short Stories Spelling Lists & practice all year Vocabulary Taught within context of literature all year</p> <p>Skills:</p> <ul style="list-style-type: none"> • express reaction • recognize literary techniques • recognize principal parts of a sentence and all 8 parts of speech • write/edit compositions • organization <p>Assessment: Informal</p> <ul style="list-style-type: none"> • teacher observation, and classroom discussion <p>Formal</p> <ul style="list-style-type: none"> • quizzes, test, projects, and quarterlies 	<p>Content: Introduction to Algebra Properties Order of Operations Exponents Scientific notation Mathematician Project</p> <p>Skills: Evaluating expressions Computing using whole numbers, fractions, decimals</p> <p>Assessment: Homework Quizzes/Tests Observation/Dialogue - individual & group Presentation - oral & written Writing Assignments</p>	<p>Content: <u>Human Geography:</u> <i>Population:</i> density, growth, migration, and <i>Human-Environmental Interaction</i> (How the environment influences humanity and how humanity impacts the environment.)</p> <p><i>Culture</i> (language, religion, government, economics, food, music, etc)</p> <p>Skills: Reading and analyzing maps, graphs, and charts; organization; effective note taking; critical thinking; Data gathering, drawing conclusions, oral presentations; sequencing; group interaction; compare and contrast; fact vs. opinion cause and effect; written expression</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Writing Assignments Class Discussion & Questioning</p>

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December	<p>Content: Introduction to Periodic Table of Elements Cell Chemistry Osmosis Diffusion Enzyme Reactions Metabolism: Respiration Photosynthesis</p> <p>Skills: Chemical Symbols for elements of human body Interpreting Chemical Formulas Graphing - pie and bar % elements in human body Basic lab techniques - measuring, graphing, recording observations, organizing data</p> <p>Assessment: Homework Lab Work Presentations Quizzes Writing Assignments Tests</p>	<p>Content: Grammar Pronouns (in greater depth, personal & indefinite) Literature "A Christmas Carol" Composition Narrative Writing Character Development & Dialogue</p> <p>Spelling Lists & practice all year Vocabulary Taught within context of literature all year</p> <p>Skills:</p> <ul style="list-style-type: none"> • explain plot • express reaction • recognize literary techniques • recognize principal parts of a sentence and all 8 parts of speech • write/edit compositions • organization <p>Assessment: Informal</p> <ul style="list-style-type: none"> • teacher observation, and classroom discussion <p>Formal</p> <ul style="list-style-type: none"> • quizzes, test, projects, and quarterlies 	<p>Content: Coordinate Graphing Integers</p> <p>Skills: Constructing Graphs Computing with all operations of Integers</p> <p>Assessment: Homework Quizzes/tests Projects/Presentations - Oral/visual Writing Assignments</p>	<p>Content: <i>Culture</i>, continued: <i>Religion</i>: Buddhism, Christianity, Hinduism, Islam and Judaism.</p> <p>Skills: Reading and analyzing maps, graphs, and charts; organization; effective note taking; critical thinking; data gathering, drawing conclusions, oral presentations; sequencing; group interaction; compare and contrast; fact vs. opinion cause and effect; written expression; visual media.</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Writing Assignments Class Discussion & Questioning</p>

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January	<p>Content: Cell Reproduction Mitosis Meiosis DNA/RNA Protein Synthesis</p> <p>Skills: Diagramming DNA Model Lab Technique - DNA Extraction Lab</p> <p>Assessment: Homework Lab Work Presentations Quizzes Writing Assignments Tests</p>	<p>Content: Grammar Nouns Pronouns (demonstrative) Indirect Objects Literature Nonfiction Composition Narrative Writing Spelling Lists & practice all year Vocabulary Taught within context of literature all year</p> <p>Skills:</p> <ul style="list-style-type: none"> • explain plot • express reaction • recognize literary techniques • recognize principal parts of a sentence and all 8 parts of speech • write/edit compositions • compare/contrast story to film • organization <p>Assessment: Informal</p> <ul style="list-style-type: none"> • teacher observation, and classroom discussion <p>Formal</p> <ul style="list-style-type: none"> • quizzes, test, projects, and quarterlies 	<p>Content: Integers continue Parallel lines/transverse Congruence/similarities Sides vs. interior angles</p> <p>Skills: Measuring angles Computing angles Recognizing relationships</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Open ended responses Class Discussion & Questioning Writing Assignments</p>	<p>Content: <i>Religion</i> continued: Religious conflicts: China, India, Israel, and Northern Ireland.</p> <p>Skills: Reading and analyzing maps, graphs, and charts; organization; effective note taking; critical thinking; data gathering, drawing conclusions, oral presentations; sequencing; group interaction; compare and contrast; fact vs. opinion cause and effect; written expression; visual media.</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Writing Assignments Class Discussion & Questioning</p>

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February	<p>Content: Genetics</p> <p>Skills: Punnett Squares Pedigrees Probability Justifying opinions</p> <p>Assessment: Homework Lab Work Presentations Quizzes Writing Assignments Tests</p>	<p>Content: Grammar Compound subjects & compound predicates Conjunctions Literature Mythology Composition MCAS Prep</p> <p>Spelling Lists & practice all year Vocabulary Taught within context of literature all year</p> <p>Skills:</p> <ul style="list-style-type: none"> • express reaction • recognize literary techniques • recognize principal parts of a sentence and all 8 parts of speech • write/edit compositions • organization <p>Assessment: Informal</p> <ul style="list-style-type: none"> • teacher observation, and classroom discussion <p>Formal</p> <ul style="list-style-type: none"> • quizzes, test, projects, and quarterlies 	<p>Content: Pythagorean Theorem Circles, triangles, trapezoids</p> <p>Skills: Measure w/protractors & Compasses Calculating Area Classifying shapes Estimation Finding square root</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Open ended responses Class Discussion & Questioning Writing Assignments</p>	<p>Content: <i>Forms of government:</i> Democracy, monarchy, oligarchy, anarchy, and dictatorship.</p> <p><i>Economies:</i> Traditional, Command, Market, and Mixed. Supply and demand, currency, standard of living, Gross National Product (GNP), and per capita income.</p> <p><i>Levels of education</i> and its effect on the economy, in particular how the political and social status of <i>women</i> affects an economy.</p> <p>Skills: Reading and analyzing maps, graphs, and charts; organization; effective note taking; critical thinking; data gathering, drawing conclusions, oral presentations; sequencing; group interaction; compare and contrast; fact vs. opinion cause and effect; written expression; visual media.</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Writing Assignments Class Discussion & Questioning</p>

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March	<p>Content: Evolution Theory of Natural Selection Adaptation & Variation Punctuated Equilibrium</p> <p>Skills: Compare and Contrast Analyzing Scientific Explanations/Theories</p> <p>Assessment: Homework Lab Work Presentations Quizzes Writing Assignments Tests</p>	<p>Content: Grammar Linking Verbs Predicate Adjectives Comparative/Superlative Adjective Forms Literature Drama Composition MCAS Prep</p> <p>Spelling Lists & practice all year Vocabulary Taught within context of literature all year</p> <p>Skills:</p> <ul style="list-style-type: none"> • express reaction • recognize drama elements • recognize principal parts of a sentence and all 8 parts of speech • write/edit compositions • organization <p>Assessment: Informal</p> <ul style="list-style-type: none"> • teacher observation, and classroom discussion <p>Formal quizzes, test, projects, and quarterlies</p>	<p>Content: Volume - rectangular, prisms, cylinders Proportions & Percents</p> <p>Skills: Calculate volume</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Open ended responses Class Discussion & Questioning Writing Assignments</p>	<p>Content: <i>Natural Resources/Human – Environmental Interaction:</i> resources are fixed (water, oil, mining, and food). Who has them, who needs them, and potential or resulting conflict: Turkey vs. Syria and Iraq; Arab states v. Israel; China v. Tibet.</p> <p><i>Urbanization:</i> Why it happens and consequences.</p> <p><i>Globalization:</i> UN, NATO, World Bank, International Monetary Fund, British Commonwealth, and Organization of American States.</p> <p>Skills: Reading and analyzing maps, graphs, and charts; organization; effective note taking; critical thinking; data gathering, drawing conclusions, oral presentations; sequencing; group interaction; compare and contrast; fact vs. opinion cause and effect; written expression; visual media.</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Writing Assignments Class Discussion & Questioning</p>

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April	<p>Content: Anatomy & Physiology</p> <p>Skills: Recognizing relationships between human body systems</p> <p>Assessment: Homework Lab Work Presentations Quizzes Writing Assignments Tests</p>	<p>Content: Grammar Verb (Tenses, Regular & Irregular Forms) Literature Poetry Composition MCAS Prep Spelling Lists & practice all year Vocabulary Taught within context of literature all year</p> <p>Skills:</p> <ul style="list-style-type: none"> • analysis of poems • compare & contrast various types of poetry • recognize principal parts of a sentence and all 8 parts of speech • write/edit compositions • organization <p>Assessment: Informal</p> <ul style="list-style-type: none"> • teacher observation, and classroom discussion <p>Formal quizzes, test, projects, and quarterlies</p>	<p>Content: Prime factorization Divisibility Ration/rate/proportion Functions/Input/Output</p> <p>Skills: Calculating rate of change Calculation ratios & proportion</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Open ended responses Class Discussion & Questioning Writing Assignments</p>	<p>Content: <i>Globalization</i>, continued: UN, NATO, World Bank, International Monetary Fund, British Commonwealth, and Organization of American States.</p> <p><i>Continents</i>: application of the knowledge accumulated in the first 3 quarters will be applied to in depth looks at each continent as well as comparing and contrasting features found in more than one continent.</p> <p>Skills: Reading and analyzing maps, graphs, and charts; organization; effective note taking; critical thinking; data gathering, drawing conclusions, oral presentations; sequencing; group interaction; compare and contrast; fact vs. opinion cause and effect; written expression; visual media.</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Writing Assignments Class Discussion & Questioning</p>

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May	<p>Content: How Ecosystems Change (ecological succession)</p> <p>Skills: Comparing and Contrasting Sequencing Reading and interpreting a diagram</p> <p>Assessment: Homework Lab Work Presentations Quizzes Writing Assignments Tests</p>	<p>Content: Grammar Review Parts of Speech & Punctuation Literature Poetry Stories – selected from text & outside sources <u>Composition</u> Poetry Writing Spelling Lists & practice all year Vocabulary Taught within context of literature all year</p> <p>Skills:</p> <ul style="list-style-type: none"> • analysis of poems • compare & Contrast various types of poetry • recognize principal parts of a sentence and all 8 parts of speech • write/edit compositions • organization <p>Assessment: Informal</p> <ul style="list-style-type: none"> • teacher observation, and classroom discussion <p>Formal quizzes, test, projects, and quarterlies</p>	<p>Content: Two-step equations w/one variable Linear equations</p> <p>Skills: Solving equations Graphing equations</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Open ended responses Class Discussion & Questioning Writing Assignments</p>	<p>Content: <i>Continents</i>, continued: application of the knowledge accumulated in the first 3 quarters will be applied to in depth looks at each continent as well as comparing and contrasting features found in more than one continent.</p> <p>Skills: Reading and analyzing maps, graphs, and charts; organization; effective note taking; critical thinking; data gathering, drawing conclusions, oral presentations; sequencing; group interaction; compare and contrast; fact vs. opinion cause and effect; written expression; visual media.</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Writing Assignments Class Discussion & Questioning</p>

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June	<p>Content: Ecosystems continued</p> <p>Skills: Interpreting Diagrams Comparing and Contrasting</p> <p>Assessment: Homework Lab Work Presentations Quizzes Writing Assignments Tests</p>	<p>Content: Grammar Review Parts of Speech & Punctuation Literature Selections from text & outside sources</p> <p>Spelling Lists & practice all year Vocabulary Taught within context of literature all year</p> <p>Assessment: Informal <ul style="list-style-type: none"> • teacher observation, and classroom discussion Formal <ul style="list-style-type: none"> • quizzes, test, projects, and quarterlies </p>	<p>Content: continue Two-step equations w/one variable Linear equations Percent Proportions</p> <p>Skills: Solving equations Graphing equations</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Open ended responses Class Discussion & Questioning Writing Assignments</p>	<p>Content: <i>Continents</i>, continued: application of the knowledge accumulated in the first 3 quarters will be applied in depth looks at each continent as well as comparing and contrasting features found in more than one continent.</p> <p>Skills: Reading and analyzing maps, graphs, and charts; organization; effective note taking; critical thinking; data gathering, drawing conclusions, oral presentations; sequencing; group interaction; compare and contrast; fact vs. opinion cause and effect; written expression; visual media.</p> <p>Assessment: Homework Class Projects Presentations Quizzes/Tests Writing Assignments Class Discussion & Questioning</p>