



Curriculum Map - Scope and Sequence: Science Grades 5-6

Saddlebrook Preparatory School

Purpose of Planning	Unit One Scientists Quarter 1/ Weeks 1-3	Unit Two Engineering Quarter 1/ Weeks 4-6	Unit Three Cells and Living Things Quarter 1/ Weeks 7-9	Unit Four Energy & Ecosystems Quarter 2/ Weeks 1-3	Unit Five Natural Resources Quarter 2/ Weeks 4-6
Unit Topic and Overview:	Essential Question(s): What do scientists do? How is the work of a scientist doing fieldwork like the work of a scientist doing lab research?	Essential Question(s): What is the Engineering design process? How can you design solutions to problems?	Essential Question(s): What are important characteristics of cells? Describe how the body works together to carry out functions?	Essential Question(s): How do populations, food chains and food webs create an ecosystem? How do people affect an ecosystem?	Essential Question(s): What are the types of resources provided in an ecosystem? How can we conserve our resources?
Prerequisite Student Knowledge *What should students have previously mastered prior to this unit?	Students should have background knowledge of scientists, laboratories, laboratory equipment, and experiments.	Students should have background knowledge of technology and simple engineering designs.	Students should have background knowledge of difference between plants and animals.	Students should have background knowledge of natural resources and that ecosystems look different.	Students should have background knowledge of natural resources and that ecosystems look different.



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<p>Essential Knowledge & Student Expectations *What are the anticipated learning outcomes for students?</p>	<p>Students demonstrate knowledge by:</p> <ol style="list-style-type: none"> 1. Reading and finding answers to the Essential Questions in the book. 2. Making qualitative and quantitative observations of the world around us. <p>Essential Questions:</p> <ol style="list-style-type: none"> 1. What is science? 2. How do scientists learn about the natural world? 3. What are some types of investigations? 4. How do you perform a controlled experiment? 5. What are some science tools? 6. How can scientists learn from observations? 	<p>Students demonstrate knowledge by:</p> <ol style="list-style-type: none"> 1. Reading and finding answers to the Essential Questions in the book. 2. Design a prototype for a jar opener. <p>Essential Questions:</p> <ol style="list-style-type: none"> 1. What is the design process? 2. How can you design a solution to a problem? 3. How does technology improve our lives? 4. How can you use engineering to solve a problem? 	<p>Students demonstrate knowledge by:</p> <ol style="list-style-type: none"> 1. Reading and finding answers to the Essential Questions in the book. 2. Study how the body stays cool and present your scientific findings. <p>Essential Questions:</p> <ol style="list-style-type: none"> 1. What are cells? 2. How can we observe cells? 3. How do cells work together? 4. How do our bodies move, breathe, and circulate blood? 5. How do our bodies digest food, remove wastes, and send messages? 6. How does the body stay cool? 7. How are living things grouped? 8. What is a Dichotomous Key? 9. How do plants grow and reproduce? 10. What factors affect germination rate? 11. How do animals grow and reproduce? 12. What are physical and behavioral adaptations? 	<p>Students demonstrate knowledge by:</p> <ol style="list-style-type: none"> 1. Reading and finding answers to the Essential Questions in the book. 2. Create an experiment to test water impacts on plants. 3. Create a food chain and food web for a given organism in a specific ecosystem. <p>Essential Questions:</p> <ol style="list-style-type: none"> 1. What is an ecosystem? 2. What makes up a land ecosystem? 3. How do environmental changes affect organisms? 4. How does drought affect plants? 5. What are the roles of organisms in an ecosystem? 6. How does energy move through ecosystems? 7. What role do decomposers play? 	<p>Students demonstrate knowledge by:</p> <ol style="list-style-type: none"> 1. Reading and finding answers to the Essential Questions in the book. 2. Observe and record weather how we can conserve natural resources. <p>Essential Questions:</p> <ol style="list-style-type: none"> 1. How do people use resources? 2. How do people conserve resources? 3. How can we conserve resources?
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<p>Anchor Text and Supplemental Texts *Illustrate texts used, and how students' knowledge builds across units.</p>	<p>Anchor Text:</p> <p>Houghton – Mifflin Harcourt Science- Fusion New Energy for Science</p>	<p>Anchor Text:</p> <p>Houghton – Mifflin Harcourt Science- Fusion New Energy for Science</p>	<p>Anchor Text:</p> <p>Houghton – Mifflin Harcourt Science- Fusion New Energy for Science</p>	<p>Anchor Text:</p> <p>Houghton – Mifflin Harcourt Science- Fusion New Energy for Science</p>	<p>Anchor Text:</p> <p>Houghton – Mifflin Harcourt Science- Fusion New Energy for Science</p>
<p>Multi-Media Links: *Videos, presentations, any and all supplemental online material.</p>	<p>-Discovery Education Video: Using the Scientific Method</p>	<p>-Discovery Education Video: Science Investigations: Physical Science: Investigating Chemical Properties *Engineering segment -Discovery Education Video: Be an Inventor</p>	<p>Discovery Education Video: Science Facts and Fun: Making Sense of it -Discovery Education Video: TLC Elementary School: What is a Living Thing?</p>	<p>-Discovery Education Video: Real World Science: Ecosystems and Biomes -Discovery Education Video: TEAMS: Ecosystems: interdependence -Discovery Education Video: TEAMS: Ecosystems: Populations</p>	<p>-Discovery Education Video: Learning about Natural Resources -Discovery Education Video: Earth and You</p>



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Instructional Practices: * Various Instructional Modalities, including Technology used	-Daily bell work and discussion of the Essential Question to guide study. -Each Essential Question is broken down into a lesson topic to focus reading and hands-on activities. -Hands-on Inquiry options use inquiry flip chart and 2 options per each lesson exist for this unit. -Digital lessons include online resources or virtual lab investigations, used for enrichment in each unit. -HW assigned nightly to reinforce topics covered.	-Daily bell work and discussion of the Essential Question to guide study. -Each Essential Question is broken down into a lesson topic to focus reading and hands-on activities. -Hands-on Inquiry options use inquiry flip chart and 2 options per each lesson exist for this unit. -Digital lessons include online resources or virtual lab investigations, used for enrichment in each unit. -HW assigned nightly to reinforce topics covered.	-Daily bell work and discussion of the Essential Question to guide study. -Each Essential Question is broken down into a lesson topic to focus reading and hands-on activities. -Hands-on Inquiry options use inquiry flip chart and 2 options per each lesson exist for this unit. -Digital lessons include online resources or virtual lab investigations, used for enrichment in each unit. -HW assigned nightly to reinforce topics covered.	-Daily bell work and discussion of the Essential Question to guide study. -Each Essential Question is broken down into a lesson topic to focus reading and hands-on activities. -Hands-on Inquiry options use inquiry flip chart and 2 options per each lesson exist for this unit. -Digital lessons include online resources or virtual lab investigations, used for enrichment in each unit. -HW assigned nightly to reinforce topics covered.	-Daily bell work and discussion of the Essential Question to guide study. -Each Essential Question is broken down into a lesson topic to focus reading and hands-on activities. -Hands-on Inquiry options use inquiry flip chart and 2 options per each lesson exist for this unit. -Digital lessons include online resources or virtual lab investigations, used for enrichment in each unit. -HW assigned nightly to reinforce topics covered.
Assessments: *Types and Measurements of Mastery	-Informal: Sum it Up! and Brain checks at the end of each chapter. -Formal: Lesson quizzes, chapter tests, and unit tests. -80% of student will score at 80% or higher on formal assessment for this unit.	-Informal: Sum it Up! and Brain checks at the end of each chapter. -Formal: Lesson quizzes, chapter tests, and unit tests. -80% of student will score at 80% or higher on formal assessment for this unit.	-Informal: Sum it Up! and Brain checks at the end of each chapter. -Formal: Lesson quizzes, chapter tests, and unit tests. -80% of student will score at 80% or higher on formal assessment for this unit.	-Informal: Sum it Up! and Brain checks at the end of each chapter. -Formal: Lesson quizzes, chapter tests, and unit tests. -80% of student will score at 80% or higher on formal assessment for this unit.	-Informal: Sum it Up! and Brain checks at the end of each chapter. -Formal: Lesson quizzes, chapter tests, and unit tests. -80% of student will score at 80% or higher on formal assessment for this unit.
Interdisciplinary Lessons & Projects: *State additional content areas and title all lesson(s) and project(s)	-Scientific Notebook: give conclusions for evidence (Science, Math, LA/Writing)	-Design a prototype for a problem (Science, LA/Writing, Math, Engineering, History, Art)	-Body systems project: look into The Body Book manipulative (Science, LA/Writing, Art, Health)	-Food Web and Food Chain: show interactions within an ecosystem (Science, LA/Writing, History, Art)	-Conservation Journal: identify local patterns/trends (science, LA/Writing, Math, Art)
Honors Course Differentiation(s):	N/A	N/A	N/A	N/A	N/A



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Integrated Common Core or NGSSS Standards (List): *See Below for Links	RL.4.10 RL.4.1 RL.4.2 RL.4.3 RL.4.4 RL.4.5 RL.4.7 RL.4.9 RF.4.3a RF.4.4 RF.4.4a RF.4.4b	RL.4.10 RL.4.1 RL.4.2 RL.4.3 RL.4.4 RL.4.5 RL.4.7 RL.4.9 RF.4.3a RF.4.4 RF.4.4a RF.4.4b	RL.4.10 RL.4.1 RL.4.2 RL.4.3 RL.4.4 RL.4.5 RL.4.7 RL.4.9 RF.4.3a RF.4.4 RF.4.4a RF.4.4b	RL.4.10 RL.4.1 RL.4.2 RL.4.3 RL.4.4 RL.4.5 RL.4.7 RL.4.9 RF.4.3a RF.4.4 RF.4.4a RF.4.4b	RL.4.10 RL.4.1 RL.4.2 RL.4.3 RL.4.4 RL.4.5 RL.4.7 RL.4.9 RF.4.3a RF.4.4 RF.4.4a RF.4.4b
Integrated CCSS Writing Standards (List): *See Below for Links	W.4.2a W.4.2b W.4.2c W.4.2d W.4.2e W.4.3 W.4.3a W.4.3b W.4.3c W.4.3d W.4.3e W.4.4 W.4.6 W.4.7 W.4.8 W.4.9 W.4.9b W.4.10	W.4.2a W.4.2b W.4.2c W.4.2d W.4.2e W.4.3 W.4.3a W.4.3b W.4.3c W.4.3d W.4.3e W.4.4 W.4.6 W.4.7 W.4.8 W.4.9 W.4.9b W.4.10	W.4.2a W.4.2b W.4.2c W.4.2d W.4.2e W.4.3 W.4.3a W.4.3b W.4.3c W.4.3d W.4.3e W.4.4 W.4.6 W.4.7 W.4.8 W.4.9 W.4.9b W.4.10	W.4.2a W.4.2b W.4.2c W.4.2d W.4.2e W.4.3 W.4.3a W.4.3b W.4.3c W.4.3d W.4.3e W.4.4 W.4.6 W.4.7 W.4.8 W.4.9 W.4.9b W.4.10	W.4.2a W.4.2b W.4.2c W.4.2d W.4.2e W.4.3 W.4.3a W.4.3b W.4.3c W.4.3d W.4.3e W.4.4 W.4.6 W.4.7 W.4.8 W.4.9 W.4.9b W.4.10
Links to CCSS/NGSSS Curriculum Standards:	The following links will be used to incorporate the CCSS and other applicable standards: <ul style="list-style-type: none"> • The Common Core State Standard expectations in Grades 5-6 • The K-12 English LA and Content Area Writing Standards • The K-12 Reading Standards • The K-12 Mathematics Standards • The K-12 NGSSS Science & Social Studies Standards 				



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Purpose of Planning	Unit Six Solar System Quarter 2/ Weeks 7-9	Unit Seven Matter Quarter 3/ Weeks 1-4	Unit Eight Earth's Surface- Oceans Quarter 3/ Weeks 5-9	Unit Nine Light and Sound Quarter 4/ Weeks 1-3	Unit Ten Light and Sound Quarter 4/ Weeks 4-6
Unit Topic and Overview:	Essential Question(s): -How do the sun, Earth, moon, and planets interact in our solar system? Phases of the moon Number of planets Composition of the planets	Essential Question(s): -What are the physical properties of matter? - How do we observe and measure the states of matter? -What are the kinds of matter? Describe different types of matter.	Essential Question(s): -What are the physical and chemical properties of matter? -How can you tell when a new substance forms? Physical properties of matter, Chemical properties of matter.	Essential Question(s): -What are some forms of energy? - How is heat important to our lives? Learning types of matter. How we use these types of matter.	Essential Question(s): -What is electricity and how do we use it in our lives? -Why are circuits, conductors, and insulators important? Learning about electricity Circuits, conductors, and insulators.
Prerequisite Student Knowledge *What should students have previously mastered prior to this unit?	Students should have background knowledge of our solar system.	Students should have background knowledge of different types of matter being solid, liquid, and gas.	Students should have background knowledge of solids, liquids, and gases changing form.	Students should have background knowledge of heat.	Students should have background knowledge of people needing electricity and how electricity has changed over time.
Essential Knowledge & Student Expectations *What are the anticipated learning outcomes for students?	Students demonstrate knowledge by: 1. Reading and finding answers to the Essential Questions in the book. 2. Create a model of the solar system. Essential Questions: 1. How do the sun, Earth, and moon interact? 2. What are moon phases? 3. How does the moon move around Earth? 4. What are the planets in our solar system? 5. How can we model the sun and planets?	Students demonstrate knowledge by: 1. Reading and finding answers to the Essential Questions in the book. 2. Organize objects based on physical properties. Essential Questions: 1. What are physical properties of matter? 2. How are physical properties observed? 3. What is conservation of mass? 4. What are the states of water?	Students demonstrate knowledge by: 1. Reading and finding answers to the Essential Questions in the book. 2. Categorize physical and chemical changes of objects. Essential Questions: 1. What are some physical changes? 2. How can we make a solution? 3. What are some chemical changes? 4. How can you tell when a new substance forms?	Students demonstrate knowledge by: 1. Reading and finding answers to the Essential Questions in the book. 2. Identify conductors and insulators around the classroom or home. Essential Questions: 1. What are some forms of energy? 2. Where does energy come from? 3. What is heat? 4. How is heat produced? What are conductors and insulators? 5. Which materials are conductors?	Students demonstrate knowledge by: 1. Reading and finding answers to the Essential Questions in the book. 2. Model / sketch correctly constructed circuits. Essential Questions: 1. What is electricity? 2. How do electric charges interact? 3. What is an electric circuit? 4. What are electric circuits, conductors, and insulators? 5. How do we use electricity?



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<p>Multi-Media Links: *Videos, presentations, any and all supplemental online material.</p>	<p>-Discovery Education Video: Journey to the Extreme: Virtual Field Trip to Mars</p>	<p>-Discovery Education Video: Properties of Matter, Part 1 -Discovery Education Video: Properties of Matter, Part 2: Liquids, Solids, and gases</p>	<p>-Discovery Education Video:</p>	<p>-Discovery Education Video:</p>	<p>-Discovery Education Video: Science Investigations: Physical Science: Investigating Motion, Forces, and Energy</p>



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<p style="text-align: center;">Instructional Practices: * Various Instructional Modalities, including Technology used</p>	<p>-Daily bell work and discussion of the Essential Question to guide study. -Each Essential Question is broken down into a lesson topic to focus reading and hands-on activities. -Hands-on Inquiry options use inquiry flip chart and 2 options per each lesson exist for this unit. -Digital lessons include online resources or virtual lab investigations, used for enrichment in each unit. -HW assigned nightly to reinforce topics covered.</p>	<p>-Daily bell work and discussion of the Essential Question to guide study. -Each Essential Question is broken down into a lesson topic to focus reading and hands-on activities. -Hands-on Inquiry options use inquiry flip chart and 2 options per each lesson exist for this unit. -Digital lessons include online resources or virtual lab investigations, used for enrichment in each unit. -HW assigned nightly to reinforce topics covered.</p>	<p>-Daily bell work and discussion of the Essential Question to guide study. -Each Essential Question is broken down into a lesson topic to focus reading and hands-on activities. -Hands-on Inquiry options use inquiry flip chart and 2 options per each lesson exist for this unit. -Digital lessons include online resources or virtual lab investigations, used for enrichment in each unit. -HW assigned nightly to reinforce topics covered.</p>	<p>-Daily bell work and discussion of the Essential Question to guide study. -Each Essential Question is broken down into a lesson topic to focus reading and hands-on activities. -Hands-on Inquiry options use inquiry flip chart and 2 options per each lesson exist for this unit. -Digital lessons include online resources or virtual lab investigations, used for enrichment in each unit. -HW assigned nightly to reinforce topics covered.</p>	<p>-Daily bell work and discussion of the Essential Question to guide study. -Each Essential Question is broken down into a lesson topic to focus reading and hands-on activities. -Hands-on Inquiry options use inquiry flip chart and 2 options per each lesson exist for this unit. -Digital lessons include online resources or virtual lab investigations, used for enrichment in each unit. -HW assigned nightly to reinforce topics covered.</p>
<p style="text-align: center;">Assessments: *Types and Measurements of Mastery</p>	<p>-Informal: Sum it Up! and Brain checks at the end of each chapter. -Formal: Lesson quizzes, chapter tests, and unit tests. -80% of student will score at 80% or higher on formal assessment for this unit.</p>	<p>-Informal: Sum it Up! and Brain checks at the end of each chapter. -Formal: Lesson quizzes, chapter tests, and unit tests. -80% of student will score at 80% or higher on formal assessment for this unit.</p>	<p>-Informal: Sum it Up! and Brain checks at the end of each chapter. -Formal: Lesson quizzes, chapter tests, and unit tests. -80% of student will score at 80% or higher on formal assessment for this unit.</p>	<p>-Informal: Sum it Up! and Brain checks at the end of each chapter. -Formal: Lesson quizzes, chapter tests, and unit tests. -80% of student will score at 80% or higher on formal assessment for this unit.</p>	<p>-Informal: Sum it Up! and Brain checks at the end of each chapter. -Formal: Lesson quizzes, chapter tests, and unit tests. -80% of student will score at 80% or higher on formal assessment for this unit.</p>
<p style="text-align: center;">Interdisciplinary Lessons & Projects: *State additional content areas and title all lesson(s) and project(s)</p>	<p>-Solar System Model: show sun, planets, moons (Science, Math, Engineering, LA/Writing)</p>	<p>-Chemical/Physical Properties sort: categorize objects (Science, Math, Art, LA/Writing)</p>	<p>-Chemical/Physical Changes sort: categorize changes taking place (Science, Math, Art, LA/Writing)</p>	<p>-Identifying conductors and insulators: given daily objects (Science, Math, Art, LA/Writing, Geography)</p>	<p>-Circuits model: model or sketch correct circuits (Science, Math, Engineering, Art, LA/Writing)</p>



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Links to CCSS/NGSS Curriculum Standards:	<p>The following links will be used to incorporate the CCSS and other applicable standards:</p> <ul style="list-style-type: none"> • The Common Core State Standard expectations in Grades 5-6. • The K-12 English LA and Content Area Writing Standards • The K-12 Reading Standards • The K-12 Mathematics Standards • The K-12 NGSS Science & Social Studies Standards 				



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Purpose of Planning	Unit Eleven Forces and Motion Quarter 4/ Weeks 7-9				
Unit Topic and Overview:	What is motion? What is speed? How are motion and speed similar and different?				
Prerequisite Student Knowledge *What should students have previously mastered prior to this unit?	Students should have background knowledge of what it looks like when objects move.				
Essential Knowledge & Student Expectations *What are the anticipated learning outcomes for students?	Students demonstrate knowledge by: 1. Reading and finding answers to the Essential Questions in the book. 2. Applying motions and speed to the role of an air traffic controller. Essential Questions: 1. What is motion? 2. What is speed?				
Anchor Text and Supplemental Texts *Illustrate texts used, and how students' knowledge builds across units.	Anchor Text: Houghton – Mifflin Harcourt Science- <i>Fusion: New Energy for Science</i>				



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<p>Instructional Practices: * Various Instructional Modalities, including Technology used</p>	<p>-Daily bell work and discussion of the Essential Question to guide study. -Each Essential Question is broken down into a lesson topic to focus reading and hands-on activities. -Hands-on Inquiry options use inquiry flip chart and 2 options per each lesson exist for this unit. -Digital lessons include online resources or virtual lab investigations, used for enrichment in each unit. -HW assigned nightly to reinforce topics covered.</p>				
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Interdisciplinary Lessons & Projects: *State additional content areas and title all lesson(s) and project(s)	-Air Traffic Controller: take on role within airport (Science, Math, Engineering, Art, LA/Writing)				
Honors Course Differentiation(s):	N/A				
Integrated Common Core or NGSSS Standards (List): *See Below for Links	RL.4.10 RL.4.1 RL.4.2 RL.4.3 RL.4.4 RL.4.5 RL.4.7 RL.4.9 RF.4.3a RF.4.4 RF.4.4a RF.4.4b				



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<p style="text-align: center;">Integrated CCSS Writing Standards (List):</p> <p>*See Below for Links</p>	<p>W.4.2a W.4.2b W.4.2c W.4.2d W.4.2e W.4.3 W.4.3a W.4.3b W.4.3c W.4.3d W.4.3e W.4.4 W.4.6 W.4.7 W.4.8 W.4.9 W.4.9b W.4.10</p>				
<p>Links to CCSS/NGSSS Curriculum Standards:</p>	<p>The following links will be used to incorporate the CCSS and other applicable standards:</p> <ul style="list-style-type: none"> • The Common Core State Standard expectations in grade 4, • The K-12 English LA and Content Area Writing Standards • The K-12 Reading Standards • The K-12 Mathematics Standards • The K-12 NGSSS Science & Social Studies Standards 				

