

6th Grade Science Pacing Guide 1st Quarter 2016-2017

HOP: Habits of Practice

Practice 1: Asking Questions/Defining Problems

Practice 4: Analyzing/Interpreting Data

Practice 7: Engaging in Argument from Evidence

Practice 2: Developing and Using Models

Practice 5: Using Math & Computational Thinking

Practice 8: Obtaining/Evaluating/Communicating Info

Practice 3: Planning/Carrying Out Investigations

Practice 6: Constructing Explanations/Designing Solutions

Practice 9: Metacognition

Standard	Week	SPI/CCSS	Chapter/ Sections	Concept	Labs/Activities/ Informational Text	NGSS Connections/ Habits of Practice
Standard 2: Interdependence	Week 1-2	<p>SPI 0607.Inq.2 Select tools and procedures needed to conduct a moderately complex experiment.</p> <p>SPI 0607.Inq.3 Interpret and translate data in a table, graph, or diagram.</p> <p>SPI 0607.Inq.4 Draw a conclusion that establishes a cause and effect relationship supported by evidence.</p> <p>SPI 0607.Inq.5 Identify a faulty interpretation of data that is due to bias or experimental error.</p> <p>SPI 0607.T/E.4 Differentiate between adaptive and assistive engineered products (e.g., food, biofuels, medicines, integrated pest management).</p> <p>CCSS Reading 6-8.3 CCSS Reading 6-8.4 CCSS Writing 6.2</p>	Chapter 1 Sections 2, 4	Introduction to Science	<p>Activity: Lab Safety</p> <p>Activity: Mystery Footprints</p> <p>Activity: D&T</p> <p>Activity: Scientific Method in Action</p> <p>Formative Assessment: Doing Science</p> <p>Lab: Drops on Penny</p> <p>Assessment Probe: What is a Hypothesis?</p> <p>Lab: Temperature Lab</p>	HOP: Practices 1, 3
	Week 3	<p>SPI 0607.2.1 Classify organisms as producers, consumers, scavengers, or decomposers according to their role in a food chain or food web.</p> <p>SPI 0607.Inq.4 Draw a conclusion that establishes a cause and effect relationship supported by evidence.</p> <p>CCSS Reading 6-8.1 CCSS Reading 6-8.8 CCSS Writing 6.2</p>	Chapter 2 Section 2	All life is interdependent and interacts with the environment	<p>Lab: Capturing the Wild Bean (66-67 of textbook)</p> <p>Informational Text: Ecology Interactions within the Environment</p> <p>Informational Text: Plants Are Producers</p> <p>Informational Text: What's Eating You</p> <p>Assessment Probe: Rotting Apple</p> <p>Activity: Food Web</p> <p>Field Trip: Chattanooga Zoo</p>	NGSS: Energy & Matter HOP: 4, 8

	<p>Week 4-5</p>	<p>SPI 0607.2.2 Interpret how materials and energy are transferred through an ecosystem. SPI 0607.Inq.2 Select tools and procedures needed to conduct a moderately complex experiment. SPI 0607.Inq.3 Interpret and translate data in a table, graph, or diagram. SPI 0607.Inq.5 Identify a faulty interpretation of data that is due to bias or experimental error.</p> <p>CCSS Reading 6-8.3</p>	<p>Chapter 2 Section 2</p>	<p>All life is interdependent and interacts with the environment</p>	<p>Seminar: Yellow Birch Tree Activity: Reviewing Food Webs on page 56 in the textbook Activity: Interaction of Living Things from online textbook Activity: Oh Deer! Activity: Hazardous Links, Possible Solutions Activity: Root Beer Activity 53) ADI Lab: 10 ADI Lab: 11</p>	<p>NGSS: Energy & Matter HOP: 2, 8</p>
	<p>Week 6-7</p>	<p>SPI 0607.2.3 Identify the biotic and abiotic elements of the major biomes. SPI 0607.2.4 Identify the environmental conditions and interdependencies among organisms found in the major biomes. SPI 0607.Inq.3 Interpret and translate data in a table, graph, or diagram. SPI 0607.Inq.4 Draw a conclusion that establishes a cause and effect relationship supported by evidence. SPI 0607.Inq.5 Identify a faulty interpretation of data that is due to bias or experimental error.</p> <p>CCSS Reading 6-8.1 CCSS Reading 6-8.2 CCSS Writing 6.2 CCSS Writing 6.7</p>	<p>Chapter 2 Section 1 Chapter 4 Section 1, 2, 3</p>	<p>All life is interdependent and interacts with the environment</p>	<p>Activity: Eco-Column Project Assessment Probe: Is It Living? Formative Assessment: Biotic Abiotic Card Sort Field Trip: TN Aquarium Informational Text: Ecosystems Assessment Probe: Adaptations Lab: Pond Water Survey Informational Text: Taiga Ecosystems Informational Text: Chaparral Ecosystems Informational Text: Rainforest Ecosystems Informational Text: Water from the Air Informational Text: Earth's Biomes Activity: Webquest</p>	<p>NGSS: Cause & Effect HOP: 3, 8</p>

					Activity: Research Project Activity: Biome in a box	
	Week 8	Supplemental Instruction and Testing (Quarter Exams)				