

7th Grade Science Pacing Guide 1st Quarter 2014-15

HOP: Habits of Practice

Practice 1: Asking Questions/Defining Problems

Practice 2: Developing and Using Models

Practice 3: Planning/Carrying Out Investigations

Practice 4: Analyzing/Interpreting Data

Practice 5: Using Math & Computational Thinking

Practice 6: Constructing Explanations/Designing Solutions

Practice 7: Engaging in Argument from Evidence

Practice 8: Obtaining/Evaluating/Communicating Info

Practice 9: Thinking about my Thinking (Metacognition)

Standard	Weeks	SPI/CCSS	Chapter/Pages	Concept	Labs/Activities/Informational Text	NGSS Connections/ Habits of Practice
Standard 7: The Earth		All Inquiry and Technology/Engineering SPI's are embedded	Chapter 1, Sections 2, 4	Introduction to Science	Activity: Mineral Sort Classification Activity	NGSS: Systems/ System Models HOP: Practice 1
	Week 1	<p>SPI 0707.7.1 Use a table of physical properties to classify minerals.</p> <p>CCSS Reading 2</p> <p>SPI 0707.Inq.2 Select tools and procedures needed to conduct a moderately complex experiment.</p> <p>SPI 0707.Inq.3 Interpret and translate data into a table, graph, or diagram.</p>	Chapter 13, Sections 1, 2 CC Reading	The characteristics of the common types of minerals	<p>Lab: Dichotomous Key for Minerals</p> <p>Lab: Identifying Minerals</p> <p>Activity: What are Minerals Web-quest</p> <p>Activity: Mineral Identification Web quest</p> <p>Activity: Mineral Identification Web Activity</p> <p>Informational Text: Blood Diamonds</p> <p>Information Text: Do we take minerals for granted?</p>	NGSS: Patterns HOP: Practice 3 & 4

Week 2-3	<p>SPI 0707.7.2 Label a diagram that depicts the three different rock types.</p> <p>SPI 0707.7.3 Identify the major processes that drive the rock cycle.</p> <p>SPI 0707.Inq.4 Draw a conclusion that establishes a cause and effect relationships supported by evidence.</p> <p>CCSS Reading 2</p>	Chapter 14, Sections 1, 2, 3, and 4	The three major rock types and how they are formed, explain the major kinds of activities that drive the rock cycle	<p>Lab: Rock Cycle Simulation Lab (Crayon Lab)</p> <p>Activity: Pre-Assessment Versions 1 and 2</p> <p>Activity: Journey on the Rock Cycle</p> <p>Activity: Rock Cycle Web quest</p> <p>Informational Text: Rocks, Minerals, and Fossils</p> <p>Informational Text: Pumice “Island” found in Pacific</p>	<p>NGSS: Cause & Effect</p> <p>NGSS: Energy & Matter: Flows, Cycles, Conservation</p> <p>HOP: Practice 2</p>
Week 4	<p>SPI 0707.7.4 Differentiate among the characteristics of the earth’s three layers.</p> <p>SPI 0707.Inq.3 Interpret and translate data into a table, graph, or diagram.</p> <p>SPI 0707.Inq.4 Draw a conclusion that establishes a cause and effect relationships supported by evidence.</p>	Chapter 15, Section 1	The characteristics of the three layers of the earth	<p>Lab: Candy bar layers</p> <p>Lab: Edible Tectonics</p> <p>Activity: Foldable for Earth’s Layers</p> <p>Activity: Earth Model and Journey to the center of the Earth Writing</p>	<p>NGSS: Scale, Proportion, Quantity</p> <p>HOP: Practice 2</p>
Week 5	<p>SPI 0707.7.5 Recognize that lithospheric plates on the scale of continents and oceans continually move at rates of centimeters per year.</p> <p>SPI 0707.Inq.3 Interpret and translate data into a table, graph, or diagram.</p> <p>SPI 0707.Inq.4 Draw a conclusion</p>	Chapter 15, Sections 2, 3	The basic causes of tectonic plate movement and the rate of that movement	<p>Lab: Graham Cracker Lab</p> <p>Activity: Plate Tectonics Computer Simulation</p>	<p>NGSS: Cause & Effect</p> <p>NGSS: Systems/ System Models</p> <p>HOP: Practice 1 & 2</p>

	that establishes a cause and effect relationships supported by evidence.				
Week 6	<p>SPI 0707.7.6 Describe the relationship between plate movements and earthquakes, mountain building, volcanoes, and sea floor spreading.</p> <p>SPI 0707.Inq.3 Interpret and translate data into a table, graph, or diagram.</p> <p>SPI 0707.Inq.4 Draw a conclusion that establishes a cause and effect relationships supported by evidence.</p> <p>SPI 0707.Inq.5 Identify a faulty interpretation of data that is due to bias or experimental error.</p> <p>CCSS Reading 2, CCSS Reading 4</p>	Chapter 15, Sections 2-4; Chapter 16.1; Chapter 17.1	What events occur at divergent and convergent plate boundaries, the connection between different kinds of plate boundaries and major types of geological events	<p>Lab: Oreo Cookie Lab</p> <p>Lab: Plate Tectonics</p> <p>Activity: Investigating the Earth's Crust</p> <p>Informational Text: Disaster in Haiti</p> <p>Informational Text: Southern Appalachians</p> <p>Informational Text: Deep Sea Volcano</p>	<p>NGSS: System/ System Models</p> <p>NGSS: Stability & Change</p> <p>HOP: Practice 2 & 4</p>
Week 7-8	<p>SPI 0707.7.7 Analyze and evaluate the impact of man's use of earth's land, water, and atmospheric resources.</p> <p>SPI 0707.Inq.1 Design a simple experimental procedure with an identified control and appropriate variables.</p>	Chapter 18, Sections 1-3	Renewable and non-renewable resources, how human activities affect natural resources and sustainability	<p>Lab: Oil Spill Cleanup Lab</p> <p>Lab: Candy Commodities</p> <p>Activity: Seminar on Coal Mining</p> <p>Activity: Greenhouse Effect Computer Simulation</p>	<p>NGSS: Cause & Effect</p> <p>NGSS Patterns</p> <p>HOP: Practice 2. 4. & 7</p>

		<p>SPI 0707.Inq.2 Select tools and procedures needed to conduct a moderately complex experiment</p> <p>SPI 0707.Inq.3 Interpret and translate data into a table, graph, or diagram.</p> <p>SPI 0707.Inq.4 Draw a conclusion that establishes a cause and effect relationships supported by evidence.</p> <p>SPI 0707.Inq.5 Identify a faulty interpretation of data that is due to bias or experimental error.</p> <p>CCSS Reading 5 CCSS Reading 6 CCSS Reading 7 CCSS Reading 8</p>		<p>Informational Text: Polar Bears and Climate Change</p> <p>Informational Text: Climate Change Data</p> <p>Informational Text: Trash City Article</p>	
	Week 9	<p>All Earth Science SPI's</p> <p>CC Writing 1, 7, 9</p>	Exam Week	<p>Activity: PARCC Type Research Project Culminating Activity for Quarter 1 Informational Texts</p>	<p>NGSS: Cause & Effect NGSS: Stability & Change HOP: Practice 7 & 8</p>