6th Grade Science Pacing Guide 4th 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 10: Energy	Week 1	SPI 0607.12.2 Identify materials that can conduct electricity. SPI 0607.Inq.1 Design a simple experimental procedure with an identified control and appropriate variables. 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.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. SPI 0607.T/E.1 Identify the tools and procedures needed to test the design features of a prototype. SPI 0607.T/E.2 Evaluate a protocol to determine if the engineering design process was successfully applied. SPI 0607.T/E.3 Distinguish between the intended benefits and the unintended consequences of a new technology. CCSS Reading 6-8.2	Chapter 14 Section 1	Identify how simple circuits are associated with the transfer of electrical energy when heat, light, sound, and chemical changes are produced.	Formative Assessment: Focused Listing Activity: Classroom Energy Poster Puzzle (see website listed on example) Informational Text: When is Carbon an Electrical Conductor Informational Text: Electric Current Informational Text: Static Electricity	NGSS: Energy & Matter HOP: 1, 7
	Week 2	CCSS Writing 6.9 SPI 0607.12.1 Identify how simple circuits are associated with the transfer of electrical energy when heat, light, sound, and chemical changes are produced. SPI 0607.Inq.1 Design a simple experimental procedure with an identified control and appropriate variables. 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.	Chapter 14 Sections 1, 4	Various forms of energy are constantly being transformed into other types without any net loss of energy from the system.	Assessment Probe: Batteries, Bulbs, Wires BSP Lab: Electrical Circuits Lab: Basic Circuits Lab: Series & Parallel Circuits Lab: Professor Gig-A- Watt Circuits (Contact EPB for	NGSS: Energy & Matter HOP: 2, 4

	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. SPI 0607.T/E.1 Identify the tools and procedures needed to test the design features of a prototype. SPI 0607.T/E.2 Evaluate a protocol to determine if the engineering design process was successfully applied. SPI 0607.T/E.3 Distinguish between the intended benefits and the unintended consequences of a new technology. CCSS Reading 6-8.3 CCSS Reading 6-8.7 CCSS Writing 6.1		Activity: Circuit Drawing Quiz Activity: Circuit Web quest Formative Assessment: Muddiest Point	
Week 3-5	TCAP ENRICHMENT			
Week 6	TCAP WEEK		Activity: The Most Peeptacular Project!	
Week 7	SPI 0707.7.1 Use a table of physical properties to classify minerals. SPI 0707.7.2 Label a diagram that depicts the three different rock types.	7 th Grade Standards	Activity: Sedimentary Rock Formation Models Packet	
Week 8-9	SPI 0707.7.3 Identify the major processes that drive the rock cycle. Supplemental Instruction/ Testing (Quarter Exam)	7 th Grade Standard	Activity : This Cycle Rocks Packet	