

6th Science Pacing Guide (by quarter)

		Effective August 2009	6th Grade Science Curriculum Pacing Guide	
Date Completed	Pacing	SPI	State Performance Indicator	Standard Category
	ALL	SPI 0607.Inq.1	Design a simple experimental procedure with an identified control and appropriate variables.	Inquiry
	ALL	SPI 0607.Inq.2	Select tools and procedures needed to conduct a moderately complex experiment.	Inquiry
	ALL	SPI 0607.Inq.3	Interpret and translate data into a table, graph, or diagram.	Inquiry
	ALL	SPI 0607.Inq.4	Draw a conclusion that establishes a cause and effect relationship supported by evidence.	Inquiry
	ALL	SPI 0607.Inq.5	Identify a faulty interpretation of data that is due to bias or experimental error.	Inquiry
	ALL	SPI 0607.T/E.1	Identify the tools and procedures needed to test the design features of a prototype.	Technology & Engineering
	ALL	SPI 0607.T/E.2	Evaluate a protocol to determine if the engineering design process was successfully applied.	Technology & Engineering
	ALL	SPI.0607.T/E.3	Distinguish between the intended benefits and the unintended consequences of a new technology.	Technology & Engineering
	ALL	SPI.0607.T.E.4	Differentiate between adaptive and assistive engineered products (e.g., food, biofuels, medicines, integrated pest management).	Technology & Engineering

	5th grade/1A	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.	Physical Science
	5th grade/1A	SPI 0607.12.2	Identify materials that can conduct electricity.	Physical Science
	5th grade/1A	SPI 0607.10.1	Distinguish among gravitational potential energy, elastic potential energy, and chemical potential energy.	Physical Science
	5th grade/1A	SPI 0607.10.2	Interpret the relationship between potential and kinetic energy.	Physical Science
	1A	SPI 0607.10.3	Recognize that energy can be transformed from one type to another.	Physical Science
	1A	SPI 0607.10.4	Explain the Law of Conservation of Energy using data from a variety of energy transformations.	Physical Science

	1B	SPI.0607.6.1	Use data to draw conclusions about the major components of the universe.	Earth and Space Science
	1B	SPI.0607.6.2	Explain how the relative distance of objects from the earth affects how they appear.	Earth and Space Science
	1B	SPI.0607.6.3	Distinguish among a day, lunar cycle, and year based on the movements of the earth, sun, and moon.	Earth and Space Science
	1B	SPI0607.6.4	Explain the different phases of the moon using a model of the earth, moon, and sun.	Earth and Space Science
	2A	SPI.0607.6.5	Predict the types of tides that occur when the earth and moon occupy various positions.	Earth and Space Science
	2A	SPI.0607.6.6	Use a diagram that shows the positions of the earth and sun to explain the four seasons.	Earth and Space Science
	2A	SPI.0607.6.7	Explain the difference between and solar and a lunar eclipse.	Earth and Space Science
	2B	SPI. 0607.8.1	Analyze data to identify events associated with heat convection in the atmosphere.	Earth and Space Science
	2B	SPI.0607.8.2	Recognize the connection between the sun's energy and the wind.	Earth and Space Science
	2B	SPI.0607.8.3	Describe how temperature differences in the ocean account for currents.	Earth and Space Science
	2B	SPI.0607.8.4	Interpret meteorological data to make predictions about the weather.	Earth and Space Science
	3A	SPI.0607.2.1	Classify organisms as producers, consumers, scavengers, or decomposers according to their role in a food chain or food web.	Life Science

	3A	SPI.0607.2.2	Interpret how materials and energy are transferred through an ecosystem.	Life Science
	3A	SPI.0607.2.3	Identify the biotic and abiotic elements of the major biomes.	Life Science
	3A	SPI.0607.2.4	Identify the environmental conditions and interdependencies among organisms found in the major biomes.	Life Science
	3B		Complete Unfinished Skills and Review	
	4 7th Grade	SPI.0707.7.1	Use table of physical properties to classify minerals.	Earth and Space Science
	4 7th Grade	SPI.0707.7.2	Label a diagram that depicts the three different rock types.	Earth and Space Science
	4 7th Grade	SPI.0707.7.3	Identify the major processes that drive the rock cycle.	Earth and Space Science
	4 7th Grade	SPI.0707.7.4	Differentiate among the characteristics of the earth's three layers.	Earth and Space Science