

First Nine Weeks

August 3rd– October 7th

Life Science and Earth & Space

Embedded Inquiry- These standards should be introduced and reinforced throughout the year.	Textbook Chapter	Major Assignments
SPI 0607.Inq.1 Design a simple experimental procedure with an identified control and appropriate variables.	Chapter 1	
SPI 0607.Inq.2 Select tools and procedures needed to conduct a moderately complex experiment.	Chapter 1	
SPI 0607.Inq.3 Interpret and translate data in a table, graph, or diagram.	Chapter 1	
SPI 0607.Inq.4 Draw a conclusion that establishes a cause and effect relationship supported by evidence.	Chapter 1	
SPI 0607.Inq.5 Identify a faulty interpretation of data that is due to bias or experimental error.	Chapter 1	Science Fair project due week of Nov. 3, 2016

Embedded Technology and Engineering- These standards should be introduced and reinforced throughout the year.	Textbook Chapter	Major Assignments
SPI. 0607.T/E.1 Identify the tools and procedures needed to test the design features of a prototype.	Chapter 1	
SPI. 0607.T/E.2 Evaluate a protocol to determine if the engineering design process was successfully applied.	Chapter 1	
SPI. 0607.T/E.3 Distinguish between the intended benefits and the unintended consequences of a new technology.	Chapter 1	
SPI. 0607.T/E.4 Differentiate between adaptive and assistive engineered products (e.g.; food, biofuels, medicines, integrated pest management)	Chapter 1	Vocabulary and Chapter test upon completion

Interdependence	Textbook Chapter	Major Assignments
SPI 0607.2.1 Classify organisms as producers, consumers, scavengers, or decomposers according to their role in a food chain or food web.	Chapter 2	
SPI 0607.2.2 Interpret how materials and energy are transferred through an ecosystem.	Chapter 2, 3	Field Trip to wetlands at Tusculum College week of Sept. 25
SPI 0607.2.3 Identify the biotic and abiotic elements of the major biomes.	Chapter 4	

SPI 0607.2.4 Identify the environmental conditions and interdependencies among organisms found in the major biomes.	Chapter 4	Vocabulary and Chapter test upon completion
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** You may view instructional materials by making arrangements with the teacher.

*** The specific order of instruction may vary within the nine weeks.

Second Nine Weeks October 17th - December 16th

Earth and Space Science

The Atmosphere	Textbook Chapter	Major Assignments
SPI 0607.8.3 Describe how temperature differences in the ocean account for currents.	Chapter 5	Vocabulary and Chapter test upon completion
SPI 0607.8.1 Analyze data to identify events associated with heat convection in the atmosphere.	Chapter 6 & 7	
SPI 0607.8.2 Recognize the connection between the sun's energy and the wind.	Chapter 6	Vocabulary and Chapter test upon completion
SPI 0607.8.4 Interpret meteorological data to make predictions about the weather.	Chapter 7	Vocabulary and Chapter test upon completion

The Universe	Textbook Chapter	Major Assignments
SPI 0607.6.1 Use data to draw conclusions about the major components of the universe.	Chapter 8	
SPI 0607.6.2 Explain how the relative distance of objects from the earth affects how they appear.	Chapter 8 Chapter 9	Vocabulary and Chapter test upon completion

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Third Nine Weeks

January 3rd – March 10th

Earth Science and Physical Science

SPI 0607.6.3 Distinguish among a day, lunar cycle, and year based on the movements of the earth, sun, and moon.	Chapter 10	
SPI 0607.6.4 Explain the different phases of the moon using a model of the earth, moon, and sun.	Chapter 10	
SPI 0607.6.5 Predict the types of tides that occur when the earth and moon occupy various positions.	Chapter 10	
SPI 0607.6.6 Use a diagram that shows the positions of the earth and sun to explain the four seasons.	Chapter 10	
SPI 0607.6.7 Explain the difference between a solar and a lunar eclipse.	Chapter 10	Vocabulary and Chapter test upon completion

	Textbook Chapter	Major Assignments
Energy		
SPI 0607.10.1 Distinguish among gravitational potential energy, elastic potential energy, and chemical potential energy.	Chapter 12	

SPI 0607.10.2 Interpret the relationship between potential and kinetic energy.	Chapter 13	Vocabulary and Chapter test upon completion
SPI 0607.10.3 Recognize that energy can be transformed from one type to another.	Chapter 12	
SPI 0607.10.4 Explain the Law of Conservation of Energy using data from a variety of energy transformations.	Chapter 12	Vocabulary and Chapter test upon completion

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Fourth Nine Weeks

March 13th – May 24th

Physical Science

Forces in Nature	Textbook Chapter	Major Assignments
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.	Chapter 14	
SPI 0607.12.2 Identify materials that can conduct electricity.	Chapter 14	Vocabulary and Chapter test upon completion

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