

First Nine Weeks

August 3rd – October 7th

Life Science

Embedded Inquiry- <i>These standards should be reviewed and reinforced throughout the year.</i>	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	Vocabulary and Chapter Assessment upon completion

Embedded Technology and Engineering- <i>These standards should be reviewed and reinforced throughout the year.</i>	Textbook Chapter	Major Assignments
SPI. 0707.T/E.1 Identify the tools and procedures needed to test the design features of a prototype.	Chapter 1	
SPI. 0707.T/E.2 Evaluate a protocol to determine if the engineering design process was successfully applied.	Chapter 1	
SPI. 0707.T/E.3 Distinguish between the intended benefits and the unintended consequences of a new technology.	Chapter 1	
SPI. 0707.T/E.4 Differentiate between adaptive and assistive engineered products (e.g.; food, biofuels, medicines, integrated pest management)	Chapter 1	Vocabulary and Chapter Assessment upon completion

Biodiversity and Change	Textbook Chapter	Major Assignments
SPI 0807.5.1 Use a simple classification key to identify an unknown organism.	Chapter 2	Vocabulary and Chapter Assessment upon completion
SPI 0807.5.2 Analyze structural, behavioral, and physiological adaptations to predict which populations are likely to survive in a particular environment.	Chapter 3	Vocabulary and Chapter Assessment upon completion
SPI 0807.5.4 Identify several reasons for the importance of maintaining the Earth's biodiversity.	Chapter 4	Vocabulary and Chapter Assessment upon completion

SPI 0807.5.5 Compare fossils found in sedimentary rock to determine their relative age.	Chapter 5	Vocabulary and Chapter Assessment upon completion
SPI 0807.5.3 Analyze data on levels of variation within a population to make predictions about survival under particular environmental conditions.	Chapter 6	Vocabulary and Chapter Assessment upon completion

Science Fair will be an ongoing project through the first nine weeks.

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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

Physical Science

Matter	Textbook Chapter	Major Assignments
SPI 0807.9.7 Apply an equation to determine the density of an object based on its mass and volume.	Chapter 7	
SPI 0807.9.8 Interpret the results of an investigation to determine whether a physical or chemical change has occurred.	Chapter 7	Vocabulary and Chapter Assessment upon completion
SPI 0807.9.2 Identify the common outcome of all chemical changes.	Chapter 7, 12	Vocabulary and Chapter Assessment upon completion
SPI 0807.9.6 Compare the particle arrangement and type of particle motion associated with different states of matter.	Chapter 8	Vocabulary and Chapter Assessment upon completion
SPI 0807.9.3 Classify common substances as elements or compounds based on their symbols or formulas.	Chapter 9	
SPI 0807.9.4 Differentiate between a mixture and a compound.	Chapter 9	Vocabulary and Chapter Assessment

		upon completion
SPI 0807.9.1 Recognize that all matter consists of atoms.	Chapter 10	Vocabulary and Chapter Assessment upon completion
SPI 0807.9.5 Describe the chemical makeup of the atmosphere.	Chapter 15	Vocabulary and Chapter Assessment upon completion

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Third Nine Weeks

January 3rd – March 10th

Physical Science

Matter	Textbook Chapter	Major Assignments
SPI 0807.9.9 Use the periodic table to determine the properties of an element.	Chapter 11	Vocabulary and Chapter Assessment upon completion
SPI 0807.9.10 Identify the reactants and products of a chemical reaction.	Chapter 12, 13	Vocabulary and Chapter Assessment upon completion
SPI 0807.9.11 Recognize that in a chemical reaction the mass of the reactants is equal to the mass of the products (Law of Conservation of Mass).	Chapter 13	Vocabulary and Chapter Assessment upon completion
SPI 0807.9.12 Identify the basic properties of acids and bases.	Chapter 14	Vocabulary and Chapter Assessment upon completion

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Fourth Nine Weeks

March 13th – May 24th

Physical Science

Forces of Nature	Textbook Chapter	Major Assignments
SPI 0807.12.4 Distinguish between mass and weight using appropriate measuring instruments and units.	Chapter 14	Vocabulary and Chapter Assessment upon completion
SPI 0807.12.5 Determine the relationship among the mass of objects, the distance between these objects, and the amount of gravitational attraction.	Chapter 15 Section 4	
SPI 0807.12.6 Illustrate how gravity controls the motion of objects in the solar system.	Chapter 15	Vocabulary and Chapter Assessment upon completion
SPI 0807.12.1 Recognize that electricity can be produced using a magnet and wire coil.	Chapter 16	
SPI 0807.12.2 Describe the basic principles of an electromagnet.	Chapter 16	
SPI 0807.12.3 Distinguish among the Earth's magnetic field, a magnet, and the fields that surround a magnet and an electromagnet.	Chapter 16	Vocabulary and Chapter Assessment upon completion

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