

# First Nine Weeks

August 3<sup>rd</sup> – October 7<sup>th</sup>

*Life Science and Earth Science*

<b>Embedded Inquiry-</b> <i>These standards should be reviewed and reinforced throughout the year.</i>	<b>Textbook Chapter</b>	<b>Major Assignments</b>
<b>SPI 0607.Inq.1</b> Design a simple experimental procedure with an identified control and appropriate variables.	Chapter 1	<b>Science Fair Project – due by November 28, 2016</b>
<b>SPI 0607.Inq.2</b> Select tools and procedures needed to conduct a moderately complex experiment.	Chapter 1	
<b>SPI 0607.Inq.3</b> Interpret and translate data in a table, graph, or diagram.	Chapter 1	
<b>SPI 0607.Inq.4</b> Draw a conclusion that establishes a cause and effect relationship supported by evidence.	Chapter 1	
<b>SPI 0607.Inq.5</b> Identify a faulty interpretation of data that is due to bias or experimental error.	Chapter 1	Chapter and Vocabulary Test upon completion

<b>Embedded Technology and Engineering-</b> <i>These standards should be reviewed and reinforced throughout the year.</i>	<b>Textbook Chapter</b>	<b>Major Assignments</b>
SPI. 0707.T/E.1 Identify the tools and procedures needed to test the design features of a prototype.	Chapter 1	<b>Egg Drop Project upon completion</b>
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	Chapter and Vocabulary Test upon completion

<b>The Earth</b>	<b>Textbook Chapter</b>	<b>Major Assignments</b>
<b>SPI 0707.7.1</b> Use a table of physical properties to classify minerals.	Chapter 13	Chapter and Vocabulary Test upon completion
<b>SPI 0707.7.2</b> Label a diagram that depicts the three different rock types.	Chapter 14	Chapter and Vocabulary Test upon completion
<b>SPI 0707.7.3</b> Identify the major processes that drive the rock cycle.	Chapter 14	Chapter and Vocabulary Test upon completion

<b>SPI 0707.7.4</b> Differentiate among the characteristics of the earth's three layers.	Chapter 15	Chapter and Vocabulary Test upon completion
<b>SPI 0707.7.5</b> Recognize that lithospheric plates on the scale of continents and oceans continually move at rates of centimeters per year.	Chapter 15	Chapter and Vocabulary Test upon completion
<b>SPI 0707.7.6</b> Describe the relationship between plate movements and earthquakes, mountain building, volcanoes, and sea floor spreading.	Chapter 16, 17	Chapter and Vocabulary Test upon completion
<b>SPI 0707.7.7</b> Analyze and evaluate the impact of man's use of earth's land, water, and atmospheric resources.	Chapter 18	Chapter and Vocabulary Test upon completion

\*The inclusion of religion is strictly for educational purposes only; such studies are not used to proselytize or establish any religion or religious belief.

\*\* 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 17<sup>th</sup> - December 16<sup>th</sup>

## *Life Science*

### **Cells**

### **Textbook Chapter**

### **Major Assignments**

**SPI 0707.1.1** Identify and describe the function of the major plant and animal cell organelles.

Chapter 2, 6

### **Edible Cell Project**

Chapter and Vocabulary Test upon completion

**SPI 0707.1.2** Interpret a chart to explain the integrated relationships that exist among cells, tissues, organs, and organ systems.

Chapter 2

Chapter and Vocabulary Test upon completion

**SPI 0707.1.3** Explain the basic functions of a major organ system.

Chapter 8, 9, 10, 11, 12

Chapter and Vocabulary Test upon completion

**SPI 0707.1.4** Sequence a series of diagrams that depict chromosome movement during plant cell division.

Chapter 3, 4

Chapter and Vocabulary Test upon completion

**SPI 0707.1.5** Explain how materials move through simple diffusion.

Chapter 3

Chapter and Vocabulary Test upon completion

<b>Flow of Matter and Energy</b>	<b>Textbook Chapter</b>	<b>Major Assignments</b>
<b>SPI 0707.3.1</b> Compare the chemical compounds that make up the reactants and the products of photosynthesis and respiration.	Chapter 3, 7	Chapter and Vocabulary Test upon completion
<b>SPI 0707.3.2</b> Interpret a diagram to explain how oxygen and carbon dioxide are exchanged between living things and the environment.	Chapter 3, 7, 9	Chapter and Vocabulary Test upon completion

<b>Heredity</b>	<b>Textbook Chapter</b>	<b>Major Assignments</b>
<b>SPI 0707.4.1</b> Classify methods of reproduction as sexual or asexual.	Chapter 4, 7, 12	Chapter and Vocabulary Test upon completion
<b>SPI 0707.4.2</b> Match flower parts with their reproductive functions.	Chapter 4, 6, 7	Chapter and Vocabulary Test upon completion
<b>SPI 0707.4.3</b> Describe the relationship among genes, chromosomes, and inherited traits.	Chapter 4, 5, 12	Chapter and Vocabulary Test upon completion
<b>SPI 0707.4.4</b> Interpret a Punnett square to predict possible genetic combinations passed from parents to offspring during sexual reproduction.	Chapter 4	Chapter and Vocabulary Test upon completion

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<b>Third Nine Weeks</b>		January 3 <sup>rd</sup> – March 10 <sup>th</sup>	
<i>Physical Science</i>			
<b>Motion</b>		<b>Textbook Chapter</b>	<b>Major Assignments</b>
<b>SPI 0707.11.3</b> Apply proper equations to solve basic problems pertaining to distance, time, speed, and velocity.		Chapter 19	Chapter and Vocabulary Test upon completion
<b>SPI 0707.11.4</b> Identify and explain how Newton's laws of motion relate to the movement of objects.		Chapter 20	Chapter and Vocabulary Test upon completion
<b>SPI 0707.11.5</b> Compare and contrast the different parts of a wave.		Chapter 22	
<b>SPI 0707.11.6</b> Differentiate between transverse and longitudinal waves in terms of how they are produced and transmitted.		Chapter 22	Chapter and Vocabulary Test upon completion

<b>SPI 0707.11.1</b> Differentiate between the six simple machines.	Chapter 21	
<b>SPI 0707.11.2</b> Determine the amount of force needed to do work using different simple machines.	Chapter 21	Chapter and Vocabulary Test upon completion

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<b>Fourth Nine Weeks</b>	March 13 <sup>th</sup> – May 24 <sup>th</sup>
<i>Review of all SPI's that have been taught.</i>	

**All students will have a review folder that will include information about every SPI they have been taught during 7<sup>th</sup> grade.**

## **GRADING:**

**7<sup>th</sup> Grade Science class will follow the grading scale below:**

**A = 93 -100**

**B = 85 – 94**

**C = 74 – 84**

**D = 70 - 73**

**F = 69 and below**

**7<sup>th</sup> grade students Science grades will be calculated the following way:**

**50% - Tests, Quizzes, Projects**

**50% - Homework, In-class work, Labs, Extra Practice**