

<b>Subject</b>	<b>Grade 8- Science</b>
<b>Nine Week</b>	<b>1st</b>
<b>Embedded Inquiry, Technology and engineering (ongoing)</b>	<p>SPI 0807.Inq.1 (Variables and Controls) Design a simple experimental procedure with an identified control and appropriate variables.</p> <p>SPI 0807.Inq.2 (Tools and Procedures) Select tools and procedures needed to conduct a moderately complex experiment.</p> <p>SPI 0807.Inq.3 (Interpret Data) Interpret and translate data into a table, graph, or diagram.</p> <p>SPI 0807.Inq.4 (Cause and Effect) Draw a conclusion that establishes a cause and effect relationship supported by evidence.</p> <p>SPI 0807.Inq.5 (Bias or Error) Identify a faulty interpretation of data that is due to bias or experimental error.</p> <p>SPI 0807.T/E.1 (Prototype Testing) Identify the tools and procedures needed to test the design features of a prototype.</p> <p>SPI 0807.T/E.2 (Engineering Design Process) Evaluate a protocol to determine if the engineering design process was successfully applied.</p> <p>SPI 0807.T/E.3 (Intended/ Unintended Consequences) Distinguish between the intended benefits and the unintended consequences of a new technology.</p> <p>SPI 0807.T/E.4 (Adaptive/Assistive Bioengineering) Differentiate between adaptive and assistive bioengineered products (e.g., food, biofuels, medicines, integrated pest management).</p> <p>Reporting Category One: Inquiry and Technology &amp; Engineering SPI 0807.5.1 (Classification Keys) Use a simple classification key to identify an unknown organism.</p>
<b>Standard</b>	<p><b>SPI 0807.5.1</b> Use a simple classification key to identify an unknown organism.</p> <p><b>SPI 0807.5.2</b> Analyze structural, behavioral, and physiological adaptations to predict which populations are likely to survive in a particular environment.</p> <p><b>SPI 0807.5.4</b> Identify several reasons for the importance of maintaining the Earth's biodiversity.</p> <p><b>SPI 0807.5.5</b> Compare fossils found in sedimentary rock to determine their relative age.</p> <p><b>SPI 0807.5.3</b> Analyze data on levels of variation within a population to make predictions about survival under particular environmental conditions.</p>
<b>Objectives</b>	<p>0807.5.1.A Select characteristics of plants and animals that serve as the basis for developing a classification key.</p> <p>0807.5.2 Compare and contrast the ability of an organism to survive under different environmental conditions.</p> <p>0807.5.3 Collect and analyze data relating to variation within a population of organisms</p> <p>0807.5.4.A Make a poster that illustrates the major factors responsible for reducing the amount of global biodiversity.</p> <p>0807.5.4.B Create a graph that demonstrate how the amount of biodiversity has changed in a particular continent or biome.</p> <p>0807.5.5 Create a timeline that illustrates the relative ages of fossils in sedimentary rock layers.</p>

<b>Topics</b>	(1) Inquiry and Technology & Engineering. (2) Biodiversity and Change
<b>Major Assignment/s</b>	Labs Diagnosis Pretest Posttest CFA 1
<b>Instructional Materials</b>	Science Book  Computer  Projection Device  Smart Board  Science Notebook  Science Starter  <a href="#">BrainPop</a> - Classifications <a href="#">Learn360</a> - Classification <a href="#">Video Quiz</a> - Classification <a href="#">Webquest</a> - Classification of Life <a href="#">Learn360</a> - Plant Adaptations  <a href="#">The Animal Kingdom</a>  <a href="#">Hands On Activity</a> - Blubber Glove <a href="#">BrainPop</a> - Genetic Mutations  <a href="#">Learn360</a> -Intro to Biodiversity  <a href="#">Biodiversity</a>  <a href="#">Learn 360</a> - Fossils

<b>Assessment(s)</b>	Diagnostic Test Pretest Biodiversity and Change Posttest Biodiversity and Change
<b>Field Trip/s</b>	N/A