

<b>Subject</b>	<b>7<sup>th</sup> Grade Science</b>
<b>Nine Week</b>	<b>First Nine Weeks</b> <i>*subject to change</i>
<b>Standard</b>	<p>Design a simple experiment procedure with an identified control and appropriate variables.</p> <p>Select tools and procedures needed to conduct a moderately complex experiment.</p> <p>Interpret and translate data in a table, graph, or diagram.</p> <p>Identify the tools and procedures needed to test the design features of a prototype.</p> <p>Distinguish between the intended benefits and the unintended consequences of a new technology.</p> <p>Differentiate between adaptive and assistive engineered products.</p> <p>Differentiate among the characteristics of the earth's three layers.</p> <p>Recognize that lithospheric plates on the scale of continents and oceans continually move at rates of centimeters per year.</p> <p>Describe the relationship between plate movements and earthquakes.</p> <p>Label a diagram that depicts the three different rock types.</p> <p>Identify the major processes that drive the rock cycle.</p> <p>Use a table of physical properties to classify minerals.</p>
<b>Objectives</b>	<p>I can identify the variables, controls, and constants in an experiment by analyzing various experiment scenarios.</p> <p>I can analyze data from charts and graphs in order to draw a conclusion about an experiment.</p> <p>I can compare and contrast the scientific method and the engineering design process.</p> <p>I can analyze a product or invention and describe the intended benefits and unintended consequences in detail.</p> <p>I can identify assistive and adaptive bioengineered products.</p> <p>I can identify the differences in the three layers of the earth.</p> <p>I can determine the speed in which the lithospheric plates move each year.</p> <p>I can determine the types of landforms formed by different plate boundaries.</p> <p>I can differentiate between the three types of rocks.</p> <p>I can diagram how a rock travels through the rock cycle.</p> <p>I can determine the identity of a mineral by analyzing its properties and using a chart for identification.</p>
<b>Topics</b>	<p>Scientific Method</p> <p>Engineering Design</p> <p>Layers of the Earth</p> <p>Plate Tectonics</p> <p>Types of Rocks</p> <p>Rock Cycle</p>

	Properties of Minerals
<b>Major Assignment/s</b>	Scientific Method vs Engineering Design Poster NASA Rock Identification
<b>Instructional Materials</b>	Textbook: Glencoe Tennessee Science 7 Interactive Notebooks <a href="https://www.brainpop.com/science/earthsystem/earthsstructure/">https://www.brainpop.com/science/earthsystem/earthsstructure/</a> Movie: Earthquakes MegaDisasters: Earthquakes in the Heartland <a href="http://www.tv.com/shows/mega-disasters/earthquake-in-the-heartland-823130/">http://www.tv.com/shows/mega-disasters/earthquake-in-the-heartland-823130/</a> Mythbusters: Shark Week: Seeing Red Clip <a href="http://www.discovery.com/tv-shows/shark-week/videos/mythbusters-vs-sharks/">http://www.discovery.com/tv-shows/shark-week/videos/mythbusters-vs-sharks/</a> NPR Transcript: Sleep More, Sneeze Less; Increased Slumber Helps Prevent Colds <a href="http://www.npr.org/sections/health-shots/2015/09/01/436385137/aim-for-at-least-7-hours-of-sleep-nightly-to-fend-off-a-cold">http://www.npr.org/sections/health-shots/2015/09/01/436385137/aim-for-at-least-7-hours-of-sleep-nightly-to-fend-off-a-cold</a>
<b>Field Trip/s</b>	N/A
<b>Assessments</b>	7 <sup>th</sup> Grade Science Diagnostic Test CFA #1