

CURRICULUM GUIDE

Earth and Space Sciences: Students develop an understanding of the patterns of energy flow along with matter cycling within and among Earth’s systems.

**SUBJECT: Science**

**GRADE: 7<sup>th</sup> Grade**

**TIMELINE: 2<sup>nd</sup> Quarter**

Standard	Kid Friendly Learning Objectives	Content (subject or topic covered in Journeys/My Perspectives)	DOK Level	Skills (ability, practice, aptitude that will be learned)	Assessment	Academic Vocabulary
<p><b>7.E1U2.7 (1 wk)</b> Analyze and interpret data to construct an explanation for how advances in technology has improved weather prediction</p>	<p>I can analyze and interpret data to construct an explanation for how advances in technology have improved weather prediction.</p>	<p><u><b>Earth and Space</b></u> <b>Describing Weather</b> Chapter 13 Lesson 1 p. 209-222</p> <p><u><b>Earth and Space</b></u> <b>Weather Forecast</b> Chapter 13 Lesson 3 p. 223-226</p>	<p>DOK 3-4</p>	<ul style="list-style-type: none"> <li>• explain</li> <li>• create</li> <li>• compare and contrast</li> <li>• differentiate</li> </ul>	<p><b>Analyze and interpret data:</b></p> <ul style="list-style-type: none"> <li>• Consider limitations of data analysis (e.g., measurement error), and seek to improve the precision and accuracy of data with better technological tools and methods (e.g., multiple trials).</li> </ul> <p><b>Construct an explanation:</b></p> <ul style="list-style-type: none"> <li>• Apply scientific knowledge and evidence to explain real-world phenomena, examples, or events.</li> </ul>	<ul style="list-style-type: none"> <li>• weather</li> <li>• climate</li> <li>• sunlight</li> <li>• ocean</li> <li>• atmosphere</li> <li>• latitude</li> <li>• altitude</li> <li>• greenhouse gases</li> </ul>

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					<ul style="list-style-type: none"> <li>Apply scientific reasoning to show why the data are adequate for the explanation or conclusion.</li> </ul>	
<p><b>7.E1U1.5 (3 Wks)</b></p> <p>Construct a model that shows the cycling of matter and flow of energy in the atmosphere, hydrosphere, and geosphere.</p>	<p>I can construct a model that shows the cycling of matter and flow of energy in the atmosphere, hydrosphere, and geosphere.</p>	<p><b>Life Science</b>  <b>Cycles of Matter</b>                      Chapter 20 Lesson 2                      P. 336-342</p> <p><b>Earth and Space</b>  <b>Rocks and the Rock Cycle</b>                      Chapter 2 Lesson 1                      P. 47-50</p> <p><b>Supplementary</b>  <b>Igneous Rocks</b>                      Chapter 4 Lesson 2  <b>Sedimentary Rocks</b>                      Chapter 4 Lesson 3  <b>Metamorphic Rocks</b>                      Chapter 4 Lesson 4</p>	<p>DOK 3-4</p>	<ul style="list-style-type: none"> <li>develop</li> <li>conclude</li> <li>differentiate</li> <li>investigate</li> </ul>	<p><b>Construct a model:</b></p> <ul style="list-style-type: none"> <li>Use and/or develop models to predict, describe, support explanations, and/or collect data to test ideas about phenomena in natural or designed systems, including those representing inputs and outputs, and those at unobservable scales.</li> <li>Develop models to describe unobservable mechanisms.</li> </ul>	<ul style="list-style-type: none"> <li>atmosphere</li> <li>geosphere</li> <li>hydrosphere</li> <li>matter</li> <li>energy</li> <li>chemical</li> <li>physical change</li> </ul>

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<p><b>7.E1U1.6 (4 wks)</b> Construct a model to explain how the distribution of fossils and rocks, continental shapes, and seafloor structures provides evidence of the past plate motions.</p>	<p>I can construct a model to explain how the distribution of fossils and rocks, continental shapes, and seafloor structures provides evidence of the past plate motions.</p>	<p><b>Earth and Space</b> <b>The Continental Drift Hypothesis</b> Chapter 7 Lesson 1 P. 91-95</p> <p><b>Development of a Theory</b> Chapter 7 Lesson 2 P. 96-101</p> <p><b>The Theory of Plate Tectonics</b> Chapter 7 Lesson 3 P. 102-106</p>	<p><b>DOK 3-4</b></p>	<ul style="list-style-type: none"> <li>• predict</li> <li>• connect</li> <li>• summarize</li> <li>• explain</li> <li>• design</li> <li>• create</li> <li>• connect</li> <li>• compare</li> <li>• conclude</li> </ul>	<p><b>Construct a model</b></p> <ul style="list-style-type: none"> <li>• Develop models to describe unobservable mechanisms.</li> <li>• Develop a model that allows for manipulation and testing of a process or system</li> </ul>	<ul style="list-style-type: none"> <li>• plate tectonics</li> <li>• continental</li> <li>• oceanic</li> <li>• rocks</li> <li>• minerals</li> <li>• Earth’s crust</li> <li>• fossils</li> </ul>