



Unit Name: Earth Science		6 Weeks Days to Teach: 3 rd -4 th 6 weeks (about 8 weeks)	
Date Taught	TEKS	Content/Vocabulary	Guiding Questions
	<p>8.10</p> <p>The student knows that complex interactions occur between matter and energy. The student is expected to:</p> <p>(B) describe interactions among solar, weather, and ocean systems</p> <p>8.12</p> <p>The student knows that cycles exist in Earth systems. The student is expected to:</p> <p>(A) analyze and predict the sequence of events in the lunar and rock cycles;</p> <p>(B) relate the role of oceans to climatic changes; and</p> <p>(C) predict the results of modifying the Earth's nitrogen, water, and carbon cycles.</p>	<p>Topography</p> <p>Continental Drift</p> <p>Sea Floor Spreading</p> <p>Plate Tectonics</p> <p>Convergent Boundary</p> <p>Divergent Boundary</p> <p>Transform Boundary</p> <p>Rift Valley</p> <p>Trench</p> <p>Subduction</p> <p>Deformation</p> <p>Hot Spot</p> <p>Rock Cycle</p> <p>Climate</p> <p>Water Cycle</p> <p>Carbon Cycle</p> <p>Nitrogen Cycle</p> <p>Nitrogen Fixing</p> <p>Bacteria</p> <p>Legume</p> <p>Spiral Galaxy</p> <p>Elliptical Galaxy</p> <p>Irregular Galaxy</p> <p>Universe</p> <p>Comet</p> <p>Big Bang Theory</p>	<p>Guided Questions for TEK 8.10</p> <p>What is the energy source the drives our weather and our ocean currents?</p> <p>Guided Questions for TEK 8.12</p> <p>What kinds of tides occur at new and full moon? 1st and 3rd Quarter?</p> <p>What is the driving force for the Earth's Rock Cycle?</p> <p>How does the EAC (East Australian Current) affect Australia's East Coast Climate?</p> <p>What is the major addition humans make to modify each of the cycles listed?</p> <p>Water Cycle?</p> <p>Carbon Cycle?</p> <p>Nitrogen Cycle?</p>

	<p>8.13 The student knows characteristics of the universe. The student is expected to: (A) describe characteristics of the universe such as stars and galaxies; (B) explain the use of light years to describe distances in the universe; and (C) research and describe historical scientific theories of the origin of the universe</p> <p>8.14 Science concepts. The student knows that natural events and human activities can alter Earth systems. The student is expected to: (A) predict land features resulting from gradual changes such as mountain building, beach erosion, land subsidence, and continental drift; (B) analyze how natural or human events may have contributed to the extinction of some species; and (C) describe how human activities have modified soil, water, and air quality.</p>		<p>Guided Questions for TEK 8.13</p> <p>What are the size, temperature, and brightness of our Sun?</p> <p>What type of galaxy do we live in and how big is Earth in relation to our Galaxy?</p> <p>What is the distance from the Earth to the sun?</p> <p>Can you differentiate the existing theories of the creation of the universe?</p> <p>Guided Questions for TEK 8.14</p> <p>What land features result at each of the 3 plate boundaries?</p> <p>What did humans do to cause the extinction of the Coqui frog in the rain forest?</p> <p>What have we done to the soil, water, and air quality in the DFW area?</p> <p>How do our actions here affect the rest of the world?</p>
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