

Course: Fourth Grade			Designated Six Weeks: 6th Six Weeks		
Unit: Patterns in Earth			Days to teach: 28		
TEKS	Guiding Questions/ Specificity	Sample Assessment	Vocabulary	Instructional Strategies	Resources/ Weblinks

(8) Earth and space. The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system.					
<p>4.8 (A) measure and record changes in weather and make predictions using weather maps, weather symbols, and a map key; (SUPPORTING)</p> <p>4.8 (B) describe and illustrate the continuous movement of water above and on the surface of Earth through the water cycle and explain the role of the Sun as a major source of energy in this process; and (SUPPORTING)</p> <p>4.8 (C) collect and analyze data to identify sequences and predict patterns of change in shadows, tides, seasons, and the observable appearance of the Moon over time. (SUPPORTING)</p>	<p>4.8(a) and (c) are both new to 4th grade.</p> <p>4.8 (c) moved from 5th grade to 4th grade</p> <p>4.8 (A) Draw and describe 3 weather symbols that are used on weather maps.</p> <p>How does wind affect the surface of the Earth? Wind can cause weathering and erosion.</p> <p>4.8(B) Draw and label the components of the water cycle.</p> <p>Emphasize the role of the Sun.</p> <p>4.8 (C) Why is the sequence of the seasons so valuable to farmers?</p>	<p><u>TMSDS-4th grade Curriculum Check</u></p> <p><u>Preparation for 5th grade Science STAAR test</u></p> <p><u>Sample Questions:</u></p> <p>1. Create a weather map that shows a low pressure front moving into your city. What symbols would you need?</p> <p>2. Which of the following is the major source of energy for life Earth? a. wind b. the Sun c. magnetism</p> <p>3. How does predicting the seasons help farmers?</p>	<p>Atmosphere air pressure weather map weather symbol barometer meteorology water cycle evaporation condensation precipitation transpiration tide wave crest trough amplitude wavelength saltwater solar system star planet orbit axis reflection tide shadow season</p>	<p><u>Examples of Instructional Strategies:</u></p> <p>Journals Cooperative learning Discovery learning Graphic Organizers KWL Chart Scaffolding</p> <p><u>Link to ELPS Instructional Strategies:</u> http://ritter.tea.state.tx.us/rules/tac/chapter074/ch074a.html</p> <p>2F-Visuals/Video, Graphic Organizers 3B-Word Sort/Expert/ Novice 2G, 4K, 5G-Writing Process</p>	<p><u>Simple Science CD:</u> 4th grade Folder: Patterns in Earth</p> <p>Weather-Use Daily Target Plans # 1-8</p> <p>Water-Use Daily Target Plans # 9-14</p> <p>Objects in the Sky-Use Daily Target Plans # 15-21</p> <p><u>Harcourt Science Textbook Grade 4:</u> D 54-76: Space and Planets D 32-38: Waters in the Ocean C 4-18: Weather</p> <p><u>Wiki:</u> www.misd4science.pbworks.com</p> <p><u>Websites</u> http://www.edheads.org/activities/weather/index.htm</p> <p>http://yahooligans.yahoo.com/content/science/brainpop/movie?id=hurricanes</p>

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	It helps them to know when to plant and harvest their crops.				<p>Safari Montage: http://safari/SAFARI/montage/login.php Phases of the Moon and Tides Bill Nye: Moons</p> <p>Promethean Planet: http://www.prometheanplanet.com/en-us/ Moon Phases by Manuel Herrera Moon Cycles and Its Phases by Janemarie Laucella Weather Maps by</p>