



**Science  
Pre-Advanced Placement  
Grade 7**

Unit Name Earth Science		3 <sup>rd</sup> – 4 <sup>th</sup> 6 Weeks, Days to Teach: 6 weeks	
Date Taught	TEKS and AP Required Elements	Content/Vocabulary	Guiding Questions
	<p>7.12 See Life Science 5<sup>th</sup>-6<sup>th</sup> 6 weeks</p> <p>7.13 ab</p> <p>(A) identify and illustrate how the tilt of the Earth on its axis as it rotates and revolves around the Sun causes changes in seasons and the length of a day; and</p> <p>(B) relate the Earth's movement and the moon's orbit to the observed cyclical phases of the moon.</p> <p>7.14 ab</p> <p>(A) describe and predict the impact of different catastrophic events on the Earth;</p> <p>(B) analyze effects of regional erosion deposition and weathering</p>	<p>Revolution Rotation Catastrophic event Weathering Erosion Deposition Resources Ecosystem Mechanical weathering Chemical weathering Climate Alluvial fan Delta Meander Flood plain Oxbow lake Groundwater Sediment Renewable resource Nonrenewable resource Inexhaustible resource</p>	<p><b><u>Components of Earth's Solar System</u></b> <b><u>Guided Question</u></b></p> <ol style="list-style-type: none"> <li>1. What is the difference between rotation and revolution?</li> <li>2. How are the seasons determined and how are day and night determined? <ul style="list-style-type: none"> <li>• Identify and illustrate how tilt, rotation and revolution of earth cause seasons, days, years.</li> </ul> </li> </ol> <p><b><u>Guided Questions</u></b></p> <ol style="list-style-type: none"> <li>1. Why is the near side of the moon the only side we see from Earth?</li> <li>2. What happens to the amount of sunlight as you move from phase to phase? <ul style="list-style-type: none"> <li>• Relationship of Earth and Moon in terms of moons cyclical phases</li> </ul> </li> </ol> <p><b><u>Alteration of Earth by nature and human activity</u></b> <b><u>Guided Question</u></b></p> <ol style="list-style-type: none"> <li>1. What is a catastrophic event?</li> <li>2. How do humans impact the severity of these events? <ul style="list-style-type: none"> <li>• Describe and predict the impact of different catastrophic events on Earth.</li> <li>• Analyze effects of regional erosion deposition and weathering.</li> </ul> </li> </ol> <p><b><u>Guided Question</u></b></p> <ol style="list-style-type: none"> <li>1. Differentiate between renewable, nonrenewable and inexhaustible resources. <ul style="list-style-type: none"> <li>• Make inferences and draw conclusions about effects of</li> </ul> </li> </ol>



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	<p>(C) make inferences and draw conclusions about effects of human activity on Earth's renewable, nonrenewable, and inexhaustible resources.</p> <p>AP Connections: Chemistry:III: Reactions A. Reaction Types 1. Acid Base reactions</p> <p>AP Environment Science IV. Environmental Quality A. Air/Water/Soil 1. major pollutants</p> <p>V. Global Changes and their consequences a. First order Effects 1. Atmosphere b. Higher order interaction 1. Atmosphere</p>		<p>human activity on Earth's renewable, nonrenewable, and inexhaustible resources.</p>
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