



**Science  
Pre-Advanced Placement  
Grade 5**

<b>Unit Name Third 6 Weeks: Earth/Environmental Science</b>			
<b>Date Taught</b>	<b>TEKS and AP Required Elements</b>	<b>Content/Vocabulary</b>	<b>Guiding Questions</b>
	<p style="text-align: center;"><b><u>Properties of Soil</u></b></p> <p>TEKS</p> <p>5.5B – describe some interactions that occur in a simple system</p> <p>AP Environmental Science Connections: I. Interdependence of Earth’s Systems: Fundamental Principles and Concepts B.The Cycling of Matter 1. Water</p>	<p>properties retain texture porous/porosity filter saturated aquifers permeable</p>	<p>Where does soil come from? What are the types of soils? Why is soil important to plants?</p> <p>Which soil retains or holds the most water?</p> <p>Which soil is most porous?</p> <p>How do Aquifers relate to soil?</p> <p>What is the role of soil in the formation of caves, sinkholes and mudslides?</p>
	<p style="text-align: center;"><b><u>Effects of Weathering</u></b></p> <p>TEKS</p> <p>5.11A- Identify and observe actions that require time for changes to be measurable, including growth, erosion, dissolving, weathering, and flow;</p>	<p>constructive destructive weathering chemical change physical change acid rain greenhouse effect glaciers</p>	<p>What is weathering?</p> <p>What environmental factors contribute to weathering?</p> <p>What effect does acid rain have on our environment?</p> <p>How is gravity a factor in erosion?</p>



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	<p>5.11B- draw conclusions about “what happened before” using data such as from tree growth rings and sedimentary rock sequences, and;</p> <p>AP Environmental Science: I. Interdependence of Earth’s Systems: Fundamental Principles and Concepts C. The Solid Earth</p>		
	<p style="text-align: center;"><b><u>Erosion and Deposition</u></b></p> <p>TEKS</p> <p>5.11A- Identify and observe actions that require time for changes to be measurable, including growth, erosion, dissolving, weathering, and flow</p> <p>5.11B-- draw conclusions about “what happened before” using data such as from tree growth rings and sedimentary rock sequences, and;</p>	<p>deposition erosion run-off levees stream tables Oxbow lake meander banks delta channel tributaries sediments</p>	<p>How are rivers formed?</p> <p>What role does gravity have in the movement of water?</p> <p>What are the effects of flooding?</p> <p>What are some precautions to prevent flooding and run-off?</p> <p>What landforms are created by rivers and streams?</p>

	<p>5.12A-interpret how land form are the result of a combination of constructive and destructive forces such as deposition of sediment, and weathering;</p> <p>AP Environmental Science Connections: I. Interdependence of Earth's Systems: Fundamental Principles and Concepts C. The Solid Earth (1. Water)</p>		
	<p style="text-align: center;"><b><u>Landforms</u></b></p> <p>TEKS</p> <p>5.11A- Identify and observe actions that require time for changes to be measurable, including growth, erosion, dissolving, weathering, and flow</p> <p>3.6B-identify that the surface of the Earth can be changed by forces such as earthquakes and glaciers;</p>	<p>landform delta cliffs basins, valleys flood-plain crevices u-shaped valley, glaciers canyon gorges rapids earthquakes volcanoes mountains</p>	<p>What kinds of landforms are formed from wind and blowing sand?</p> <p>What effect does moving water such as waves and tides have on the coast line?</p> <p>What type of landforms are created from glaciers?</p> <p>How are mountains created?</p>



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	AP Environmental Science: I. Interdependence of Earth's Systems: Fundamental Principles and Concepts C. The Solid Earth	obstruct rock sequence tectonic plates crust mantle core faults	
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	<b><u>Caves</u></b>	stalagmites stalactites cavern minerals crystals limestone calcite	Where would you find a cave?  What is its purpose?  How are different types of caves formed?  What are the different types of forms found in caves and how were they formed?  How does the original ground material affect how the cave is formed?  How can you compare and contrast stalactites and stalagmites?
	TEKS  5.12A- interpret how land form are the result of a combination of constructive and destructive forces such as deposition of sediment, and weathering;  AP Environmental Science: I. Interdependence of Earth's Systems: Fundamental Principles and Concepts C. The Solid Earth		