



**Science**  
**Pre-Advanced Placement**  
**Grade 5**

<b>Unit Name: Fourth 6 Weeks</b>		<b>Days to Teach: Fourth Six Weeks</b>	
<b>Date Taught</b>	<b>TEKS and AP Required Elements</b>	<b>Content/Vocabulary</b>	<b>Guiding Questions</b>
	<p><b><u>Constructive and Destructive Forces</u></b></p> <p>TEKS</p> <p>5.12A – interpret how land forms are the result of a combination of constructive and destructive forces such as deposition of sediment and weathering</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>cycle</p> <p>constructive</p> <p>destructive</p> <p>erosion</p> <p>forces</p>	<p>How do construction and destruction forces shape and reshape the Earth’s surface?</p> <p>What is a construction/destruction force?</p> <p>How are mountains and valleys formed?</p> <p>How do volcanoes form?</p> <p>What are the layers of the Earth?</p> <p>What causes earthquakes?</p> <p>What are the cause and effects of water, wind, ice, and coastal erosion?</p>

	<p>AP Environmental Science Connections: 1. Interdependence of Earth's systems: Fundamental principals and concepts C. the solid Earth</p>		
	<p><b><u>Moon/Earth Comparison</u></b></p> <p>TEKS</p> <p>5.12C – identify the physical characteristics of the Earth and compare them to the physical characteristics of the moon</p> <p>5.12D – identify gravity as the force that keeps the earth in orbit around the sun and the moon in orbit around the earth</p>	<p>lunar phases reflect gravity tides seasons craters</p>	<p>How can you compare the size of the Earth VS. the Moon?</p> <p>Are the densities the same or different?</p> <p>How does the atmosphere compare?</p> <p>How can you describe the surface of the moon and how it relates to the Earth?</p> <p>What is the difference between phases and seasons?</p> <p>What causes an eclipse? Why do we always see the same face of the moon?</p> <p>What causes tides?</p>



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	<p>AP Environmental Science Connections: 1. Interdependence of Earth's Systems: Fundamental principals and concepts A. the flow of energy</p>		
	<p style="text-align: center;"><b><u>Planets</u></b></p> <p>TEKS</p> <p>3.11C –identify the planets in our solar system and their position in relation to the sun</p> <p>AP Physics Connections: 1. Newtonian Mechanics</p>	<p>rotation revolution axis inertia orbit</p>	<p>What is the planet order from the sun?</p> <p>How many planets are there?</p> <p>What is an orbit?</p> <p>How do planets orbit (what do they orbit around)?</p> <p>Why do the planets orbit?</p> <p>Do the planets all travel in the same direction?</p> <p>Are the planets the same size?</p>

	F. Oscillations and gravitation		<p>What makes the planets different from each other?</p> <p>What keeps the planets in their order?</p>
	<p><b><u>Characteristics of the Sun</u></b></p> <p>TEKS</p> <p>3.11D – describe the characteristics of the sun</p> <p>4.11C – identify the sun as a major source of energy for the earth and role in the growth of plants, in the creation of winds, and in the water cycle</p> <p>AP Physics Connections: 1. Newtonian Mechanics</p>	reflect solar energy	<p>Why is the sun so important to our solar system?</p> <p>What is the sun?</p> <p>Why is the sun essential to us, on Earth?</p> <p>What is the sun composed of?</p> <p>How does the sun affect the Earth?</p>

	F. Oscillations and gravitation		
	<p style="text-align: center;"><b><u>Solids, Liquids and Gasses</u></b></p> <p>TEKS</p> <p>5.7A – classify matter based on its physical properties including magnetism, physical state, and the ability to conduct or insulate heat, electricity, or sound.</p> <p>AP Chemistry Connections: 1. Structure of matter 1. States of matter</p>	<p>atom balance boiling point Celsius condensation constant dissolving matter melting point properties</p>	<p>How can you explain the difference between solids, liquids, and gases?</p> <p>How is density related to states of matter?</p> <p>How can you classify these states of matter?</p> <p>How do we use properties of matter?</p>