

Enduring Understanding	Standards Addressed	Essential Questions	Anchor Lessons	Assessment
<p><b>Earth Science</b></p> <p>Weathering, erosion and decomposition affect the surface of the earth.</p>	<p>Soil 4:</p> <p>Explain and give examples of the ways in which soil is formed (the weathering of rock by water and wind and from the decomposition of plant and animal remains).</p>	<ol style="list-style-type: none"> <li>1. How do weathering, erosion, and decomposition change the surface of the earth?</li> <li>2. What are examples of the above in our community?</li> <li>3. What happens at the end of a river if a lot of soil and sand erodes along the river?</li> </ol>	<p>Class trip to National Seashore</p> <p>Experiment demonstrating chemical weather (chalk)</p> <p>Find examples of erosion in and around Falmouth</p>	<p>In-class check:</p> <ul style="list-style-type: none"> <li>• Rubric</li> <li>• Checklist</li> <li>• Peer Assessment</li> <li>• Individual Project</li> <li>• Group Project</li> <li>• Research Report</li> <li>• Presentation</li> <li>• Test</li> <li>• Quiz</li> <li>• Discussion</li> <li>• Open-Response Questions (ORQ)</li> <li>• Model</li> </ul>
<p>Wind and water affect climate.</p>	<p>Weather 6:</p> <p>Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time.</p> <p>Weather 8:</p> <p>Describe how global patterns, like the jet stream and water currents, influence local weather in measurable terms such as temperature, wind direction and speed, and precipitation.</p>	<ol style="list-style-type: none"> <li>1. What makes up weather in a particular place and time?</li> <li>1. How do ocean currents affect climate?</li> <li>2. What are ocean currents and what causes them?</li> </ol>	<p>Use maps of global currents and color enhanced satellite images to observe temperature differences in the world's oceans.</p> <p>Lab - What happens to the air in a corked bottled if heated and the cork is removed?</p>	

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Climate helps us understand the weather conditions at different times and seasons over an expanded period of time.	Weather 9:  Differentiate between weather and climate.	1. What is the difference between weather and climate?	Track local weather over time.  Compare conditions indoors and outdoors with a thermometer and a barometer.	
The cycle of evaporation, condensation and precipitation affect our climate.	The Water Cycle 11:  Give examples of how the cycling of water, both in and out of the atmosphere, has an effect on climate.	1. How do evaporation, condensation and precipitation affect our climate?  2. What role does the sun play in the water cycle?  3. How does humidity affect climate?	Compare and contrast the humidity in a variety of climates.  Chart the humidity in the air over a period of time.  Lab - Demonstrate the movement of water by evaporation  Lab - Explore how sunlight moves water	
Erosion and weathering change the Earth's surface.	Earth's History 12:  Give examples of how the surface of the Earth changes due to slow processes such as erosion and weathering, and rapid processes such as landslides, volcanic eruptions, and earthquakes.	1. What is the difference between weathering and erosion?  2. How does erosion change the Earth's surface?  3. How does weathering change the Earth's surface?	Compare and contrast the processes of weathering, erosion, and deposition.  Lab - Explore a model of the Earth's layers.  Lab – Investigate weathering	