

Stage 1 - Desired Results		
<p>ESTABLISHED GOALS (CCSS)</p> <p>RST 9.3 - Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.</p> <p>RST 9.7 - Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.</p> <p>SL 9.1a - Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the topic or issue to stimulate a thoughtful, well-reasoned exchange of ideas.</p> <p>WHST 9.8 - Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the usefulness of each source in answering the research question; integrate information into the text selectively to maintain the flow of ideas, avoiding</p>	Transfer	
	<p>Students will be able to independently use their learning to...</p> <p>Identify and describe the different divisions of the global ocean.</p> <p>Explain how humans are able to explore an extreme environment such as the ocean floor.</p> <p>Identify various features found on the ocean floor and continental margins.</p> <p>Describe some marine life.</p> <p>Recognize and demonstrate the anomalous characteristics of water.</p> <p>Explain the driving forces behind surface ocean currents.</p> <p>Explain tidal cycles and what causes them.</p>	
	Meaning	
	<p>UNDERSTANDINGS</p> <p>Students will understand that...</p> <p>All the ocean water is connected.</p> <p>The ocean water in each zone of the surface of the earth is different from each other.</p> <p>Due to extreme temperatures and pressures, submersibles are used to explore the ocean floor.</p> <p>Locations of landmasses with respect to tectonic plate boundaries determines the features of the continental margins.</p> <p>Some of the requirements for marine life to survive, and continue.</p> <p>Though a common liquid on the earth, water is an anomalous substance.</p> <p>Ocean water is in motion due to prevailing winds, differences in temperature, differences in density, differences in salinity, the Coriolis Effect, and the gravitational pull of the Sun and Moon.</p>	<p>ESSENTIAL QUESTIONS:</p> <p>What are the 5 Major Oceans and where are they each located?</p> <p>How are the major oceans different from each other?</p> <p>Why has man studied the ocean throughout history?</p> <p>How do we know about features on the ocean floor?</p> <p>What are the features that make up a continental margin?</p> <p>What are some features of the ocean floor?</p> <p>What are some examples of marine life, and what do they require to be able to survive, to eat, and to reproduce?</p> <p>How is Water different from other liquids?</p> <p>How is Ocean water different from fresh water?</p> <p>What forces contribute to surface ocean currents?</p> <p>What are tidal cycles and what causes them?</p>
Acquisition		
<p>Students will know...</p> <p>The global ocean is divided up into 5 oceans and that all other</p>	<p>Students will be skilled at...</p> <p>Identifying and labeling the 5 oceans on a map.</p> <p>Identifying and labeling the features of the ocean floor and continental margins on a diagram.</p>	

<p>plagiarism and following a standard format for citation.</p> <p>RI 9.4 - Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze the cumulative impact of specific word choices on meaning and tone.</p>	<p><i>connecting bodies of water are appendages to those 5.</i> <i>The conditions of the ocean floor make it difficult to explore.</i> <i>Active margins are at plate boundaries, and passive margins are not.</i> <i>Water molecules have unusual properties because they are polar.</i> <i>How prevailing wind patterns and the Thermohaline Circulation affect the movement of ocean water.</i> <i>The gravitational pull of the moon, and to a lesser degree, the sun, causes the periodic rise and fall of sea level.</i></p>	<p>Demonstrating some of the anomalous qualities of water. Determining the effects of high and low tide on the tidal zone as well as the effects of spring tides and neap tides. Explaining the movement of ocean water and the causes for that movement.</p>
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Stage 2 – Evidence

Evaluative Criteria	Assessment Evidence			
<p>PERFORMANCE TASKS</p>	<p>CURRICULUM EMBEDDED PERFORMANCE ASSESSMENT (PERFORMANCE TASKS): Given a map of the world identify and label the major oceans and some seas, as well as major ocean currents. Given several diagrams of the ocean floor and coastlines, correctly label the different features and zones. Demonstrate some of the unusual qualities of water including surface tension, adhesion, and cohesion. Research several deep sea animals using the Internet and determine their physical descriptions, requirements for food, survival from predators, and reproduction.</p>			
<p>CLAIMS</p>	<p>CLAIM 1</p>	<p>CLAIM 2</p>	<p>CLAIM 3</p>	<p>CLAIM 4</p>
<p>DEPTH OF KNOWLEDGE LEVELS</p>	<p>DOK 1</p>	<p>DOK2</p>	<p>DOK 3</p>	<p>DOK4</p>
<p>ACHIEVEMENT LEVEL DESCRIPTORS</p>	<p>ALD 1</p>	<p>ALD 2</p>	<p>ALD 3</p>	<p>ALD 4</p>

Stage 3 – Learning Plan

<p>Notes/discussion on the earth as a water planet, features of the ocean floor and coastlines, ocean exploration, ocean life, properties of ocean water, and movements of the ocean.</p> <p>Complete maps and diagrams of ocean related places and features.</p>

Ocean life research activity.
Water properties lab.

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