

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. The conditions of the ocean floor make it difficult to explore.</i></p> <p><i>Active margins are at plate boundaries, and passive margins are not.</i></p> <p><i>Water molecules have unusual properties because they are polar.</i></p> <p><i>How prevailing wind patterns and the Thermohaline Circulation affect the movement of ocean water.</i></p> <p><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.</p> <p>Determining the effects of high and low tide on the tidal zone as well as the effects of spring tides and neap tides.</p> <p>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):</p> <p>Given a map of the world identify and label the major oceans and some seas, as well as major ocean currents.</p> <p>Given several diagrams of the ocean floor and coastlines, correctly label the different features and zones.</p> <p>Demonstrate some of the unusual qualities of water including surface tension, adhesion, and cohesion.</p> <p>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.