

<b>Topic/Objectives:</b> 8-1 Biodiversity in the Ocean; (1) Discuss the importance of biodiversity and provide examples of diverse organisms in the ocean. (2) Explain how the structures of marine organisms support their functions.	<b>Name:</b>
	<b>Date:</b>
	<b>Period:</b>

**Essential Question:** How does the loss of biodiversity affect marine ecosystems?

<b>Questions:</b>	<b>Notes:</b>
	<p>The number and variety of species within a habitat or area is known as _____.</p> <ul style="list-style-type: none"> <li>◦ _____ means “wanderer” and refers to organisms that drift at the mercy of the ocean’s movements.</li> <li>◦ Some marine organisms (_____) can swim or move against or unhindered by the ocean’s movement.</li> <li>◦ _____ ecosystems have very high biodiversity: algae, coral, fish, worms, slugs, turtles, sharks, plankton, etc.</li> <li>◦ Biodiversity is _____ in the ocean than on land.</li> </ul>
	<p>Biodiversity does not only describe the many different types of organisms, but the variety within a population.</p> <ul style="list-style-type: none"> <li>◦ _____ diversity refers to the varying types of habitats, ecosystems, and communities.</li> <li>◦ _____ diversity refers to the varying types of species in a given area.</li> <li>◦ _____ diversity refers to the differences in DNA in a given population.</li> </ul>
	<p>Within a _____ no two organisms are the same.</p> <ul style="list-style-type: none"> <li>◦ Ex. Within a species of Albatross some birds may fly faster or farther than others and therefore attract stronger mates.</li> </ul> <p>_____ diversity is important to the health of the species, ecosystem, and the Earth system.</p> <ul style="list-style-type: none"> <li>◦ Ex. Some mangroves within a swamp may have stronger root systems allowing them to withstand the high winds of a hurricane better.</li> <li>◦ The loss of mangroves not only could devastate the population, but the community of organisms that rely on the mangroves for shelter and protection.</li> </ul>

