

<b>Topic/Objectives:</b> 9-1 Runoff and Phytoplankton; 1) Illustrate the process of eutrophication and its effects on aquatic ecosystems, while relating it to human activities	<b>Name:</b>
	<b>Date:</b>
	<b>Period:</b>

**Essential Question:** How does runoff from land affect phytoplankton populations in the ocean?

<b>Questions:</b>	<b>Notes:</b> <p>A _____ is a geographic land area on which runoff water from precipitation gathers and flows.</p> <ul style="list-style-type: none"> <li>◦ Every decision we make has an effect on the water _____ and _____ of the watershed in which we live.</li> <li>◦ Nearly every watershed drains into the _____, thereby our actions affect the health of _____.</li> </ul> <p>Scientists use _____ to identify and study changes in landforms.</p> <ul style="list-style-type: none"> <li>◦ _____ are drawn to indicate equal elevation and indicate the slope of the land.</li> </ul>
	<p>_____ accounts for only 3% of Earth's total water and is stored in ice, underground and in surface water bodies.</p> <p>Types of freshwater systems and features include:</p> <ul style="list-style-type: none"> <li>◦ Freshwater depressions that store water such as _____ and _____</li> <li>◦ _____ which are sometimes characterized as marshes, swamps or bogs</li> <li>◦ _____, where water flows over the banks of the river or stream</li> <li>◦ Flowing water such as _____ and _____.</li> <li>◦ Underground water sources such as _____ and _____ from which water is forced up to the surface.</li> <li>◦ Sediment deposits at the mouths of rivers or streams known as _____.</li> </ul>
	<p>Scientists study a variety of _____ (measurable characteristics) to determine the health and quality of water in a freshwater and marine environment.</p> <p>Chemical Parameters</p> <ul style="list-style-type: none"> <li>◦ _____ and _____ levels are important for building proteins, DNA and other important compounds; where excess can lead to _____ (out of control algal growth).</li> <li>◦ Organisms generally survive best within certain _____ ranges, thus changes can affect the food web and health of the environment.</li> <li>◦ Most marine organisms need _____ (DO) to release energy from food.</li> </ul>

