## Life Science 7

Chapter 20-2 (Marine Ecosystems) p 534-539

## **Objectives**

- Distinguish between the different areas of the ocean
- Explain the importance of plankton in marine ecosystems
- Describe coral reefs and intertidal areas.

## **Aquatic Biomes**

<ul> <li>three categories of aquatic life</li> </ul>	
<ul><li>plankton ph</li><li>food chain</li></ul>	otosynthetic plankton, form the base of the
• ve	ry small phytoplankton
• he	terotrophic plankton
<ul> <li>nekton- larger, strong swimming org</li> <li>benthos- bottom dwelling organism</li> </ul>	•
<ul> <li>subdivided into: estuary, intertion communities</li> </ul>	
Estuaries	
there	(river delta, etc) eatly, requiring a wide tolerance for organisms to live t, but is in danger from pollution, development, etc
Intertidal Zone	, but to in durigor from politicol, do to opinion, oto
<ul> <li>intertidal zone-</li> <li>very nutrient rich region, but very stressful, a</li> <li>organisms need to adapt for</li> </ul>	as tide moves in and out, and avoiding
Neritic Zone	
<ul> <li>neritic zone:</li> <li>sheltered from wave action, but is st</li> <li>variety of echinoderms, fish, worms</li> <li>usually ir</li> </ul>	
Oceanic Zones	
<ul> <li>oceanic zone:</li> <li>lots of photosynthesis from submerg</li> <li>good fishing!</li> </ul>	jed vegetation, phytoplankton

## Benthic Zone

•	benthic zone-
	<ul><li>too deep for light, no photosynthesis</li><li>organisms that live here feed on</li></ul>

- thermal vents- areas where hot mineral rich water flows up from under the Earth
  - chemosynthetic bacteria use the thermal vents for food, provide a base for food chain in this deep water