Marine Biology Chapter 12: Study Guide

Continental Shelf and Physical Characteristics

- Vocabulary

Continental shelf	Tidal currents	lithogenous
Sublittoral zone	Turbulence	
Subtidal zone	Sedimentation	

- Be able to describe the location of the continental shelf and some general characteristics
- Know the four fundamental characteristics that affect organisms living on the continental shelf
- Know how water motion including tides and waves affect organisms
- Know the three zones of the water column and what happens to certain physical characteristics as depth increases
- Know how salinity varies on the continental shelf
- Know what sedimentation is and how wave motion affects how sediment settles out
- Know how sediment and phytoplankton affect the water
- Know the blue box *Under the Antarctic Ice* on page 259

Continental Shelf as an Ecosystem

- Vocabulary

Epifauna	Manatee grass	Pneumatocyst
Infauna	Eel grass	Kelp beds
Sessile	Epiphytes	Kelp forests
Patchy	Coralline algae	Sporophyte
Lottery Hypothesis	Holdfasts	Gametophyte
Detritus	Perennial	Canopy
Meiofauna	Stipe	Understory
Turtle grass	Fronds	

- Know what influencing inhabiting organisms and how it affects their distribution
- Know the two main types of communities
- Know the general characteristics of a soft bottomed community
- Know the differences and similarities between soft bottoms in the intertidal and on the continental shelf
- Know the characteristics of unvegetated soft bottomed communities
- Know the types of organisms found in an unvegetated soft bottomed communities, their purpose and where they can be found (if applicable)
- Know the characteristics of seagrass beds
- Know the three types of seagrass and their importance and advantages
- Know the importance of their root system
- Know why primary production in a seagrass bed is so high
- Know what types of organisms can be found in a seagrass bed
- Know the general characteristics of a hard bottomed community
- Know the differences and similarities between rocky bottoms in the intertidal and on the continental shelf
- Know the types of organisms (including seaweeds) that are found on rocky bottoms

- Know some of the factors that affect organisms living on a rocky bottom
- Know some of the methods seaweeds employ to escape predation
- Know what predation has on the inhabitants of a rocky shore
- Know what kelps are and some characteristics of kelp communities
- Know the basic structure of a kelp
- Know the four physical factors that play an important role in kelp communities
- Know the basic life cycle of a kelp
- Be able to describe the 3D zonation of a kelp community, the characteristics of each zone and the organisms that inhabit them
- Know the locations where organisms live in and around kelp and examples of each
- Know how grazers affect kelp communities
- Know the reasons why sea urchins populations "explode"
- Know what is being done to protect kelp forests
- Know the blue box *Life in the Mud* on page 262