Section 4-4 Aquatic Ecosystems (pages 106-112)

This section explains the main factors that govern aquatic ecosystems. It also describes the characteristics of freshwater ecosystems, freshwater wetlands, estuaries, and the different marine zones.

Introduction (page 106)

1. Aquatic ecosystems are primarily determined by what characteristics of the overlying water?

a	c
b	d

2. What does the depth of the water determine? ______

3. What does water chemistry primarily refer to? _____

Freshwater Ecosystems (pages 106–107)

- 4. What are the two main types of freshwater ecosystems?
 - a. _____ b. _____
- 5. Where do flowing-water ecosystems originate? _____
- 6. How does the circulating water in a standing-water ecosystem affect the ecosystem?
- 7. What is plankton? _____
- **8.** Complete the table about kinds of plankton.

KINDS OF PLANKTON

Kind	Organisms	How Nutrition Obtained
	Single-celled algae	
	Planktonic animals	

9. What is a wetland? ______

	Class Dat	e
). What is brackish wa	ter?	
I. What are three main	types of freshwater wetlands?	
a	b c	
2. What distinguishes a	a marsh from a swamp?	
stuaries (page 108)		
3. What are estuaries?		
I. Tiny pieces of decay	ing plants and animals make up the	that
provides food for org	ganisms at the base of an estuary's food web.	
5. Circle the letter of ea	ach sentence that is true about estuaries.	
a. Most primary pro	oduction is consumed by herbivores.	
b. They contain a m	ixture of fresh water and salt water.	
c. Sunlight can't rea	ich the bottom to power photosynthesis.	
d. They are affected	by the rise and fall of ocean tides.	
7. What are mangrove	swamps, and where are they found?	
7. What are mangrove farine Ecosystems 8. What is the photic ze	swamps, and where are they found? (pages 109–112) one of the ocean?	
 7. What are mangrove <i>Iarine Ecosystems</i> 8. What is the photic zo 9. The permanently data 	swamps, and where are they found?	
 7. What are mangrove farine Ecosystems 8. What is the photic zo 9. The permanently data 9. What are the three m distance from the shore 	swamps, and where are they found?	epth and
 7. What are mangrove farine Ecosystems 8. What is the photic zo 9. The permanently dat 9. What are the three m distance from the shore a. 	swamps, and where are they found?	epth and
 7. What are mangrove <i>farine Ecosystems</i> 8. What is the photic zo 9. The permanently date 9. What are the three mean distance from the short and the shor	swamps, and where are they found?	epth and
 7. What are mangrove <i>Iarine Ecosystems</i> 8. What is the photic zo 9. The permanently data 9. The permanently data 9. What are the three main distance from the shore a. 1. Circle the letter of eaconomic a. Organisms there a surroundings. 	swamps, and where are they found?	epth and
 7. What are mangrove <i>Marine Ecosystems</i> 8. What is the photic zo 9. The permanently data 9. The permanently data 9. What are the three main distance from the short and the	swamps, and where are they found?	epth and
 7. What are mangrove //arine Ecosystems 8. What is the photic zo 9. The permanently dat 9. The permanently dat 9. What are the three m distance from the shore a. 1. Circle the letter of eac a. Organisms there a surroundings. b. The rocky intertic c. Organisms are ba 	swamps, and where are they found?	epth and

Na	lame	_ Class	Date			
Ch	Chapter 4, Ecosystems and Communities (continued)					
22.	2. What is zonation?					
23.	3. What are the boundaries of the coastal ocean?					
24. Why is the coastal ocean often rich in plankton and many other organisms?						
25.	5. A huge forest of giant brown algae	in the coastal oc	ean is a(an)			
26. 27.	 6. Circle the letter of each sentence th a. The coasts of Florida and Hawa b. The primary structure of coral rest c. Almost all growth in a coral reed d. Only a few organisms are able to 7. What are the boundaries of the operation 	at is true about c ii have coral reefs eefs is made of th f occurs within 4 o live near coral : en ocean?	oral reefs. s. ne skeletons of coral animals. 0 meters of the surface. reefs.			
28. 29.	8. The benthic zone covers the ocean9. What are the boundaries of the ben					
30.	0. Organisms that live attached to or	near the bottom	of the ocean are called			

_.

Name	Class	Date		
WordWise				
Answer the questions by writing the o in the blanks. Use the circled letter fr Then, write a definition for the hidde	correct vocabulary terms fr om each term to find the h n word.	rom Chapter 4 idden word.		
What are physical factors that sha	pe ecosystems?			
What is the full range of physical the way in which the organism us	and biological condition es those conditions?	ns in which an organism lives and		
What are the planktonic animals called?				
What is a layer of permanently from	ozen subsoil in the tund	ra?		
What is the average, year-after-ye particular region?	ar condition of temperat	ture and precipitation in a		
Hidden Word:				
Definition:				