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

TEKS FOCUS: 2A Plan and implement investigative procedures; 2B Collect data with precision; TEKS SUPPPORT: 12C Compare tolerances and adaptations of animals in different biomes

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?

- 5. Where do flowing-water ecosystems originate?
- 6. How does the circulating water in a standing-water ecosystem affect the ecosystem?

a. _____ b. _____

- 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? ______

© Pearson Education, Inc. All rights reserved

a	ame C	lass	Date
0.	0. What is brackish water?		
1.	. What are three main types of freshwate	r wetlands?	
	a b		C
12.	2. What distinguishes a marsh from a swa	mp?	
Es	stuaries (page 108)		
13.	3. What are estuaries?		
L 4.	I. Tiny pieces of decaying plants and anim	1	
_	provides food for organisms at the base		
15.	5. Circle the letter of each sentence that is		S.
	a. Most primary production is consume	5	
	b. They contain a mixture of fresh wate		
	c. Sunlight can't reach the bottom to po	1 5	S.
	d. They are affected by the rise and fall		
16.	6. What are salt marshes?		
17.	7. What are mangrove swamps, and where	e are they found? _	
M	Iarine Ecosystems (pages 109–112)		
	8. What is the photic zone of the ocean? _		
	1		
19.	0. The permanently dark zone below the p	photic zone is called	l the
20.). What are the three main vertical divisio distance from the shore?	ns of the ocean bas	ed on the depth and
	a b		C
21.	. Circle the letter of each sentence that is true	ue about the intertid	al zone.
	a. Organisms there are exposed to extre surroundings.	eme changes in the	r
	surroundings.		
	b. The rocky intertidal zones exist in ter	mperate regions.	
	0	. 0	

Na	me Class Date
22.	What is zonation?
23.	What are the boundaries of the coastal ocean?
24.	Why is the coastal ocean often rich in plankton and many other organisms?
25.	A huge forest of giant brown algae in the coastal ocean is a(an)
	 Circle the letter of each sentence that is true about coral reefs. a. The coasts of Florida and Hawaii have coral reefs. b. The primary structure of coral reefs is made of the skeletons of coral animals. c. Almost all growth in a coral reef occurs within 40 meters of the surface. d. Only a few organisms are able to live near coral reefs. What are the boundaries of the open ocean?
	The benthic zone covers the ocean What are the boundaries of the benthic zone?
30.	Organisms that live attached to or near the bottom of the ocean are called

_.