

Ocean Water

Chapter

Directions: *Use the word bank provided to complete the following ocean summary.*

desalination	halite	salinity			
dissolved gases	nitrogen	steady state volcanoes			
fish	oxygen				
groundwater	photosynthesize	water			
Ocean water contains many (1) The greatest portion of natural ele-					
ments in the ocean, 96.5%, is oxygen and hydrogen combined in pure					
(2) Other gases dissolved in ocean water are carbon dioxide,					
s), and oxygen. (4)		comes directly from the			
atmosphere, as well as from ocean plants that (5) Chloride and sulfat					
ions are deposited into the ocean from (6), while sodium, magnesium,					
and calcium are deposited from rocks dissolved slowly in rivers and (7)					
Scientists measuring the (8), the amount of salts dissolved in seawater,					
have discovered that the oceans are not growing saltier. (9) and other					
ocean creatures use the gases and salts to make bones and shells. Elements naturally are being					
added back to the oceans at the sam	e rate that they are removed-	—a concept called			
10) Scientists continue to experiment with methods of					
(11), where salts are separated from pure water through evaporation, use					
of straining membranes, or melting frozen ice. This process leaves behind the natural salt,					
(12), also known as sodium chloride, or table salt.					
Directions: Give an example of how humans use ocean resources in each of the following ways.					
13. Food from the ocean:					
14. Ocean transportation:					
15. Energy and minerals from the ocean:					
16. Oceans affect weather and climate:					
17. Ocean currents:					



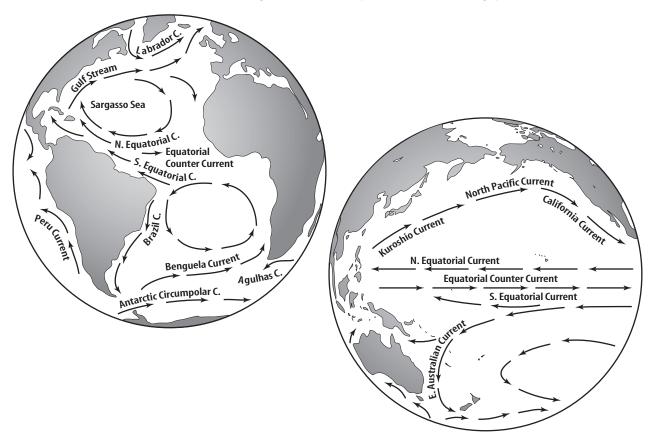
Ocean Currents

Chapter 18

Directions: *Answer the following questions on the lines provided.*

- 1. What kind of current forms when more dense seawater moves toward less dense seawater?
- 2. What causes an upwelling?

Directions: *Use the information from the figures below to help answer the following questions.*



3. What is the name of the current that flows southerly along the west coast of the United States?

Is this current warm or cold? _____

- **4.** In what direction do cold currents generally flow in the northern hemisphere?
- 5. Because of the influence of the Coriolis effect, what is the general motion of surface currents north of the equator? ______south of the equator? ______



Ocean Waves and Tides

Chapter 18

Directions: Write the term that matches each description below on the spaces provided. Unscramble the boxed letters to answer question 11.

1. collapsi	ng wave		
	tide that occurs when the rth, and the Moon form a right		
	tal distance between ves or two crests		
4. lowest p	point of a wave		
5. rise and	fall in sea level		
•	ic movement that carries through matter or space		
	tide that occurs when the rth, and the Moon line up		
	e water back into the r a wave breaks		
9. highest	point of a wave		
	distance between crest and trough		
11. What is	. What is the difference between the level of the ocean at high tide and low tide?		

Name Date Class



The Seafloor

Chapter 19

Directions: Write the correct oceanography term on the line in front of its definition.

abyssal plains manganese nodules placer deposits	continental shelf mid-ocean ridge seafloor spreading	continental slope ocean basin seamount	deep-water deposits oceanic trench subduction zone			
-	-					
		the area in all ocean basins where new ocean floor is formed steep slope between the continental shelf and the ocean floor				
	2. steep slope between the					
:	1	ocation of deep ocean trenches where crustal plates of old ocean floor lide beneath another plate tumps of mineral resources that formed from minerals dissolved in seawater which then came out of solution to form solids, rich in manganese, copper, iron, nickel, and cobalt concentrated deposits of denser mineral-grains from rivers dropped on continental shelves, may contain gold, titanium, or diamonds underwater, inactive volcanic peaks, most common in the Pacific Ocean ow areas of Earth that are filled with ocean water				
	water which then came					
	-					
	6. underwater, inactive vo					
	7. low areas of Earth that					
	flat seafloor, valleys filled with sediment					
	9. location of underwater sulfur, iron, zinc, coppe	vents of superheated wa er, and silver; too expensi	_			
10). process of ocean plates forming new crust	separating, hot magma	rising from Earth's crust			
1	gradual sloping edge of a continent that extends under the ocean					
12	2. long, narrow, deep-side beneath another; most	ed depression where one common in the Pacific I				
Directions: Answer the qu	uestion below.					
13. Discuss the importa	ance of mid-ocean ridges, ork to create and recycle E		cean trenches and how			