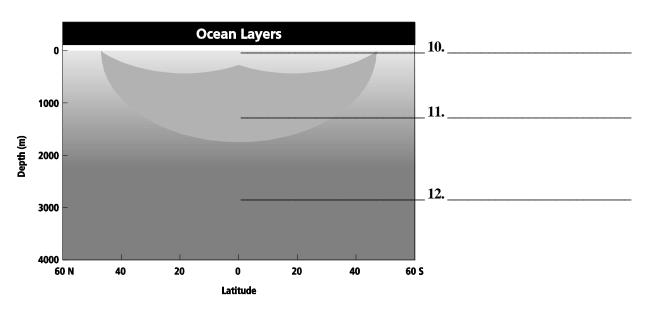
Name: _				Period		Date:	
		EES - Oceanography	/ Sti	udv Guide			
Circle t	he letter	of the choice that best answers the question.					
1. About what percentage of seawater is dissolved salts?							
		96.5 percent b. 9.65 percent			d.	35 percent	
2.	Which	of the following salts is most abundant in	seaw	rater?			
	a.	sodium chloride	c.	potassium chloric	le		
	b.	magnesium sulfate	d.	calcium chloride			
3.	What is	s salinity?					
	a.	the amount of dissolved salts in seawater	c.	the amount of diss	olv	ed gases in seawater	
	b.	the amount of water in the oceans	d.	another name for salt			
4.	What u	unit is commonly used to measure the salt c	onte	nt of water?			
	a.	parts per liter	c.	kilograms per cul	oic l	liter	
	b.	grams per liter	d.	parts per thousand	d		
5.	In addi	tion to salts, which of these substances is d	lisso	lved in seawater?			
	a.	sugars b. nutrients	c.	shells	d.	seaweed	
6.	Which	of the following would cause surface ocea	n wa	ter to have a highe	r sa	alt content?	
	a.	a river flowing into the ocean					
	b.	the melting of sea ice					
	c.	high rates of evaporation and low rates of	f pred	cipitation			
d. low rates of evaporation and high rates of precipitation							
7. What evidence indicates that the salt content of ancient oceans was about the same as it is today?					e same		
	a.	seafloor sediments					
	b.	 comparisons of modern seashells and fossil shells 					
	c.	ancient lava flows that formed in seawater					
	d.	salt content in surface water versus the salt content in bottom water					
8.	Which	process does NOT add salts to seawater?					
	a.	weathering of crustal rock	c.	volcanic gases			
	b.	decay of hard-shelled sea creatures	d.	flow of rivers into) th	e ocean	
9.	Which	process removes salt from seawater?					
	a.	ultraviolet radiation					
	b.	weathering of feldspars					
	c.	incorporation of ions in marine organism's shells, bones, and teeth					
	d.	consumption of sediments by bottom-feed	ding	organisms			

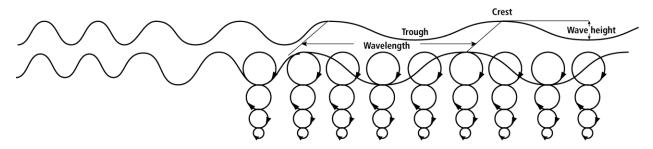
N.T.			
Name			

Use the terms below to label the diagram of ocean temperatures.

surface layer bottom layer thermocline



Use the diagram to answer the following questions.



- 1. Describe the rhythmic movement of a wave. What is the direction of its energy?
- **2.** What is the highest point of a wave called?
- **3.** What is the lowest point of a wave called?
- **4.** What is the vertical distance between the highest and lowest points of a wave?
- **5.** What is the horizontal distance between the top of one wave and the top of the next?

6.	What is the relationship between the wave speed in deep water and wavele		
7.	How does an ocean wave become a breaker at the shoreline?		
	-		
For eac	ch item in Column A, write the letter of the matching item in Column B.		
	Column A		Column B
	8. Periodic rise and fall of sea level	a.	gravitational
			forces
	9. Difference between high tide and low tide	1_	
	· ·	b.	spring tides
	9. Difference between high tide and low tide10. Forces exerted by the Sun and the Moon that generate tidal bulges	b. c. d.	spring tides neap tides tide
_	10. Forces exerted by the Sun and the Moon that	c.	neap tides
_	10. Forces exerted by the Sun and the Moon that generate tidal bulges11. Type of tide with the highest high tides and lowest	c. d.	neap tides tide
	 10. Forces exerted by the Sun and the Moon that generate tidal bulges 11. Type of tide with the highest high tides and lowest low tides 12. Type of tide that occurs when the Sun, the Moon, 	c. d.	neap tides tide
	 10. Forces exerted by the Sun and the Moon that generate tidal bulges 11. Type of tide with the highest high tides and lowest low tides 12. Type of tide that occurs when the Sun, the Moon, and Earth form a right angle 	c. d. e.	neap tides tide tidal range

15. The gyres of the northern hemisphere circulate in a

16. An example of a warm, poleward-flowing current is the

counterclockwise direction.

Gulf Stream.

Name _

Use each of the terms just once to complete the passage. vertically nutrients offshore upwelling In addition to moving horizontally, ocean water moves (17) _____. The upward motion of ocean water is called (18) ______. Upwelling waters originate from the bottom of the ocean and are (19) _____. The trade winds blow surface water (20) ______, and the surface water is replaced by upwelling deep water. Upwelling waters are rich in (21) ______, which support abundant marine life populations. Define the following terms: Plankton= **Benthos=** Nekton= Aquaculture= Thermocline Zone= **Desalination=** Ocean Currents= **Surface Currents=** Gyres= Deep (Density) Currents=

Upwelling=

Name		

Waves=
Swell=
Crest=
Trough=
Wavelength=
Wave Height=
Breakers=
Longshore Currents=
Refraction=
Undertow=
Rip Currents=
Wave-Cut Cliffs and Platforms=
Sea Arches and Sea Stacks=
Barrier Islands=
Spits=
Bars=

Name		