Na	ame Period	Period	
ΑP	P Biology Date		
	RAVEN CHAPTER 6 GUIDED NOTES: MEMBRANES		
1.	. Describe the structure of a phospholipid molecule. Be sure to describe their behav relation ship to water.	ior in	
2.	. What happens when a collection of phospholipids molecules are placed in water?		
3.	Explain the significance of this behavior in relationship to the evolution of life.		
4.	. What is meant by the phrase "the plasma membrane is fluid"?		
5.	. Explain the fluid mosaic model.		
6.	. How is the fluidity of the cell membrane altered?		

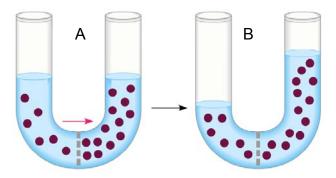
7.		scribe the components of the cell membrane. Explain the function of each and give ar
	a.	
	b.	
	C.	
	d.	
8.	List	t and briefly describe the different classes of membrane proteins and the roles they play.
	a.	
	b.	
	C.	
	d.	
	Е.	
	f.	

9.	Describe how the structure of membrane proteins allows some proteins to be permanently anchored within the cell membrane as a transmembrane protein whereas other proteins can move freely about the surface of the membrane.			
10.	The cell membrane is selectively permeable. Explain what that means. Which molecules easily cross the membrane? How are molecules transported that do not easily cross the membrane?			
11.	Define the following			
	a. Diffusion			
	b. Facilitated Diffusion			
	c. Osmosis			
	d. Hypotonic			
	e. Hypertonic			
	f. Isotonic			

AP Biology

Name _____

12. What is happening in the diagram below?



13. Explain how facilitated diffusion works and give an example.

14. What is the function of aquaporins? Why are they necessary?

15. What do animal & plant cells do when placed in solutions that are:

- a. Hypotonic _____
- b. Hypertonic_____
- c. Isotonic _____
- 16. How does the *Paramecium* maintain osmoregulation?

Na	me	AP Biology
17.	What is the difference between exocytosis and endocytosis?	
18.	Distinguish between pinocytosis and phagocytosis.	
19.	Describe an example of receptor-mediated endocytosis.	
20.	How do active and passive transport differ?	
21.	The sodium-potassium pump uses to pump	
22.	out of the cell and into the cell. Define coupled transport and give an example.	
23.	Define counter transport and give an example	