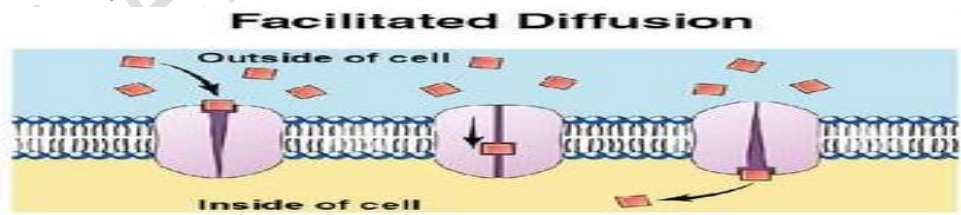


Active vs. Passive Transport 101 Video Review



1. Describe the cell membrane and tell its function. \_\_\_\_\_  
\_\_\_\_\_
2. What is the cell membrane made out of? \_\_\_\_\_  
\_\_\_\_\_
3. Draw and label the phospholipid bilayer below (picture on the right):
4. What is passive transport? \_\_\_\_\_  
\_\_\_\_\_
5. Name the 3 types of passive transport. \_\_\_\_\_
6. Draw and label the picture of passive transport below (picture on the right):
7. What is diffusion? Name 3 examples. \_\_\_\_\_  
\_\_\_\_\_
8. Draw and label the picture of diffusion below (picture on the left):
9. What is facilitated diffusion? Give an example of it. \_\_\_\_\_  
\_\_\_\_\_
10. Label the picture of facilitated diffusion below



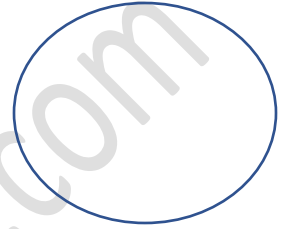
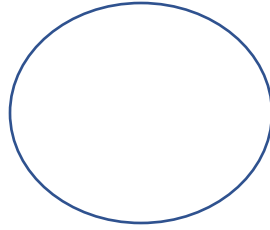
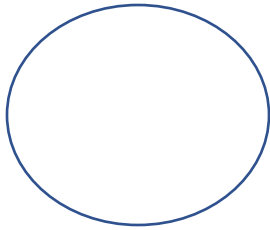
11. What is Osmosis? \_\_\_\_\_  
\_\_\_\_\_
12. How does water help maintain homeostasis? \_\_\_\_\_  
\_\_\_\_\_

13. What is an isotonic solution? \_\_\_\_\_

14. What is a hypertonic solution? \_\_\_\_\_

15. What is a hypotonic solution? \_\_\_\_\_

16. Label the 3 types of solutions below:



17. What is active transport? Name the 3 types of active transport. \_\_\_\_\_

18. Explain protein pumps. \_\_\_\_\_

19. Explain endocytosis. \_\_\_\_\_

20. Explain exocytosis. \_\_\_\_\_

### Check for Understanding

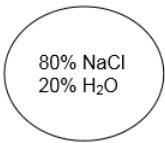
1. What is the main difference between active and passive transport? \_\_\_\_\_

2. Name three types of passive transport and three types of active transport. \_\_\_\_\_

3. Explain the difference between diffusion, facilitated diffusion, and osmosis. \_\_\_\_\_

4. Explain the difference between endocytosis and exocytosis. \_\_\_\_\_

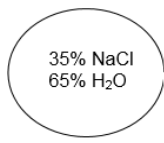
5. Answer each scenario below based upon your knowledge of osmosis



25% NaCl  
75% H<sub>2</sub>O

a. Water will flow \_\_\_\_\_  
(into the cell, out of the cell, in both directions).

b. The cell will \_\_\_\_\_  
(shrink, burst, stay the same).

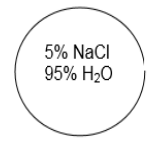


35% NaCl  
65% H<sub>2</sub>O

35% NaCl  
65% H<sub>2</sub>O

a. Water will flow \_\_\_\_\_  
(into the cell, out of the cell, in both directions).

b. The cell will \_\_\_\_\_  
(shrink, burst, stay the same).



95% NaCl  
5% H<sub>2</sub>O

a. Water will flow \_\_\_\_\_  
(into the cell, out of the cell, in both directions).

b. The cell will \_\_\_\_\_  
(shrink, burst, stay the same).