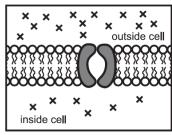
Passive & Active Transport Target Check cell membrane & Transport review #2

	Name:	Date:	Block:
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Refer to the diagram to the right, which shows a cell membrane composed of a phospholipids bilayer with a channel protein. Each x represents the same type of molecule inside or outside the cell. *Facilitated diffusion moves this molecule across the cell membrane.*

- 1. In what direction will these molecules move and through which structure?
 - a. Into the cell through the transport protein
 - b. Into the cell through the phospholipid bilayer
 - c. Out of the cell through the transport protein
 - d. Out of the cell through the phospholipid bilayer



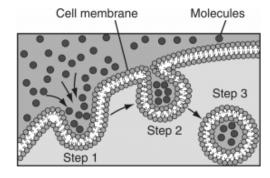
x = molecule

Refer to the transport mechanisms below for questions 2 and 3.

- 2. Which type of transport moves molecules **against** a concentration gradient?
 - a. I only
 - b. II only
 - c. II and IV only
 - d. II, III, IV only
 - e. I, II, III, and IV

Word Bank:

- I. Active Transport
- II. Diffusion
- III. Facilitated Diffusion
- IV. Osmosis
- 3. Which of the above types of transport moves molecules by **passive transport**?
 - a. I only
 - b. II only
 - c. II and IV only
 - d. II, III, IV, only
 - e. I, II, III, IV
- 4. Which process is illustrated to the **right**?
 - a. Diffusion of water into a cell
 - b. Endocytosis
 - c. Exocytosis
 - d. Facilitated diffusion



- 5. In **pure water**, a red blood cell from an animal will swell and burst, but a leaf cell from a **plant** will not. Which structure in the leaf cell is responsible for this difference?
 - a. Cell Membrane
 - b. Cell Wall
 - c. Mitochondria
 - d. Nucleus

Use the picture to the right to answer question 6.

6. The diagram to the right shows a **plant cell** before and after it is placed in a solution. After the cell is placed in the solution, <u>it changes shape</u>. Which table shows the initial concentration of solute in the cell and in the solution that would cause the cell to change shape as shown in the diagram?





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A.	Location	Solute Concentration
	Inside cell	12%
	Outside cell	12%

В.	Location	Solute Concentration
	Inside cell	3%
	Outside cell	6%

C.	Location	Solute Concentration
	Inside cell	7%
	Outside cell	5%

D.	Location	Solute Concentration
	Inside cell	0%
	Outside cell	0%

Word Bank:

- A. Active transport
- B. Osmosis
- C. Facilitated diffusion
- D. Passive transport
- E. Exocytosis
- F. Phagocytosis

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What type transport is this? _____

7. _____ Active transport of materials **out** of the cell

8.	Water moves a	across a semi-permeable	membrane	G. Endocytosis H. diffusion				
9.	a specific type	of endocytosis		L				
10.	A molecule other than water is passively transported using a protein							
11.	Active transpo	Active transport of materials <u>into</u> the cell						
12.	A molecule oth	ner than water passively	moving in or out of	the cell				
13.	3 Movement across the membrane from <u>high</u> to <u>low</u> and with no energy used.							
14.	Movement acr	oss the membrane from	<u>low</u> to <u>high</u> and w	th energy used				
	the following terms to the Active Transport B.	•	C. Osmosis					
	Fresh water moves from a			·				
	concentration of 75%. Wh	at type of transport is th	is?					
16.	Transport proteins carry	glucose into a muscle ce	II					
17.	Carbon dioxide molecules there are only 25 units (no			lits into the bloodstream where				
18.	Sodium ions are pumped	out of red blood cell fro	m an area with 35 i e	ons to an area with 125 ions.				