Cell Transport Review Worksheet

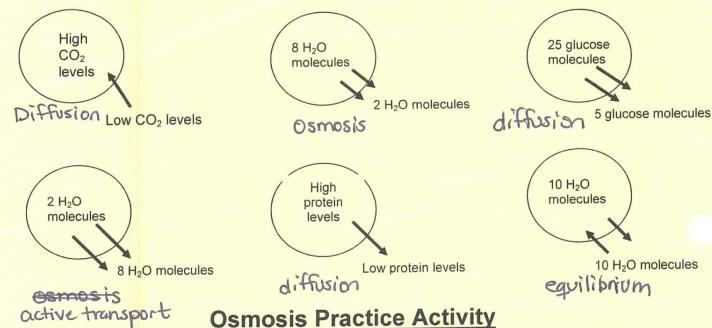
Complete the table by checking the correct column for each statement:

Statement	Isotonic solution	Hypotonic solution	Hypertonic solution
Causes a cell to swell			
Doesn't change the shape of a cell	/		
Causes osmosis	/	~	~
Causes a cell to shrink			

Guado Como	,10	~						
Causes a cell t	o shrink							
Match the term	ch the term with its correct description:							
	a. energy		. active transpor	t				
	b. facilitated diffu		exocytosis					
	c. endocytosis		. carrier protein					
	d. passive transp	ort ii	. channel proteir	17 207				
€ H Trans	sport protein that pro	vides a tube-like o	onening in the pla	sma membrane				
	Transport protein that provides a tube-like opening in the plasma membrane through which particles can <u>diffuse</u>							
Is used during active transport but not passive transport								
	Particle movement from an area of higher concentration to an area of lower							
-	concentration							
	_ A form of passive transport that uses transport proteins							
12								
^	centration							
GTrans	Transport protein that changes shape when a particle binds with it							
NA () ()	20.20							
Match the term with its correct description:								
	ransport protein ctive transport	d. passive tr		. exocytosis . equilibrium				
	iffusion	f. endocytos		. equilibrium				
0. u		n chacey too						
The diffu <mark>s</mark> ion of water through a cell membrane								
The movement of substances through the cell membrane without the use of								
cellular energy								
B When energy is required to move materials through a cell membrane								
When the molecules of one substance are spread evenly throughout another								
	substance to become balanced							

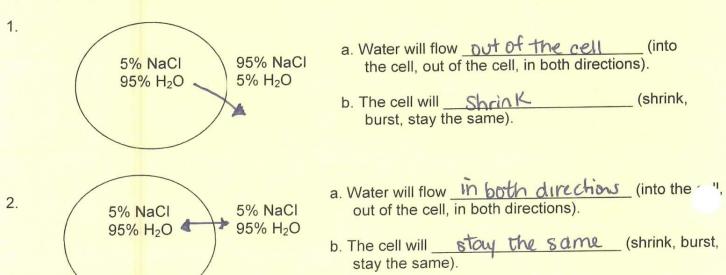
A vacuole membrane fuses (becomes a part of) the cell membrane and the contents are released The cell membrane forms around another substance, for example, how the amoeba gets its food When molecules move from areas of high concentration to areas of low concentration

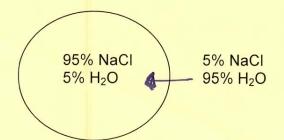
Label the diagrams of cells using the following terms: diffusion, active transport, osmosis, equilibrium. The arrows show the direction of transport. You may use the terms more than once!



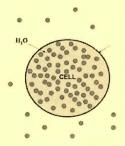
Osmosis Practice Activity

Osmosis is the diffusion of water from an area of high concentration to an area of low concentration. Only water moves in osmosis! The diagrams below show the concentration of water and salt inside the cell and the concentration of water and salt surrounding the cell. Complete the sentences below by comparing the concentration of the water inside the cell and the concentration outside the cell.

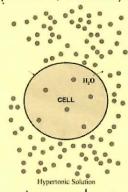




- a. Water will flow <u>into the cell</u> (into the cell, out of the cell, in both directions).
- b. The cell will ______ bucll _____(shrink, burst, stay the same).
- 4. At which solution of concentration gradient is each cell diagram? (Hypotonic, Hypertonic, Isotonic)



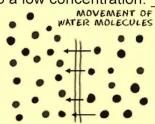
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a. hypotonic soln

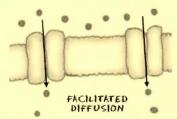
b. isotonic soln

. This diagram is moving from a high to a low concentration:

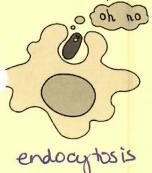


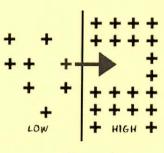
6. The process of using a transport protein to move particles across the membrane:

facilitated diffusion



7. Describe the processes occurring in the following pictures:





active transport