## **Cell Transport Review Worksheet**

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

mplete the table by effecting th	ic correct coluit	III IOI Cacii Statel	HEIL.		
Statement	Isotonic	Hypotonic	Hypertonic		
	solution	solution	solution		
Causes a cell to swell					
Doesn't change the shape of a					
cell					
Causes osmosis					
Causes a cell to shrink					
Match the term with its correct de	scription:		•		
a. energy	-	e. active transpor	t		
b. facilitated diffu		f. exocytosis	•		
c. endocytosis		g. carrier protein			
d. passive transp		h. channel proteir	1		
			•		
Transport protein that p	rovides a tube-l	like opening in th	e plasma		
membrane through wh			L		
Is used during active tra			t		
Process by which a cell					
it it					
Particle movement from	an area of high	ner concentration	to an area of		
lower concentration					
Process by which a cell	expels wastes	from a vacuole			
A form of passive trans	port that uses to	ransport proteins			
Particle movement from					
higher concentration			o an aroa or		
Transport protein that c	hanges shape v	when a particle bi	nds with it		
	nangoo onapo t	mon a partiolo pr	·		
Match the term with its correct de	scrintion:		·.		
a. transport protein	d. passive t	traneport	exocytosis		
b. active transport	e. osmosis		. equilibrium		
c. diffusion	f. endocyto		. equilibrium		
o. dilusion	i. endocyto	313			
The diffusion of water throu	igh a coll momb	rana			
The diffusion of water through a cell membrane					
The movement of substances through the cell membrane without the use					
of cellular energy					
Used to help substances enter or exit the cell membrane					
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

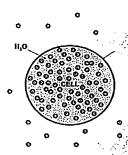
		r <sub>i</sub> .		
amoeba gets its	s food	und another substa		F.
Label the diagrams of osmosis, equilibrium the terms more than o	The arrows sh			<u></u>
High CO <sub>2</sub> levels	. :-	2O ecules 2 H <sub>2</sub> O molecules	25 glucos molecules 5	
2 H <sub>2</sub> O molecules	/ pr	High rotein evels	10 H <sub>2</sub> O molecules	
8 H₂O moleçi	[+	Low protein levels  Practice Activit	*	0 H₂O molecules
Osmosis is the diffusion of volume of the cell and the concentration by comparing the concentrations.	is! The diagrams on of water and sa	below show the concen alt surrounding the cell.	tration of water an Complete the sent	d salt inside ences below
1. 5% NaCl 95% H <sub>2</sub> O	95% NaCl 5% H <sub>2</sub> O	a. Water will flow the cell, out of the	e cell, in both direc	(into ctions).
		b. The cell will burst, stay the sa	ame).	(shrink,
2. 5% NaCl 95% H <sub>2</sub> O	5% NaCl 95% H <sub>2</sub> O	a. Water will flow out of the cell, in b	oth directions).	(into the cell
	).	b. The cell will stay the same).		(shrink, bur

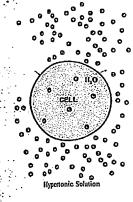
3.

	•
95% NaCl 5% H₂O	
370 F12O	

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

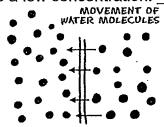
- a. Water will flow \_\_\_\_\_ (into the cell, out of the cell, in both directions).
- b. The cell will \_\_\_\_\_ (shrink, burst, stay the same).
- 4. At which solution of concentration gradient is each cell diagram? (Hypotonic, Hypertonic, Isotonic)



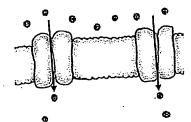


a. \_\_\_\_\_

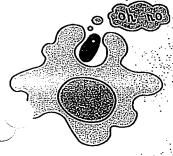
b.

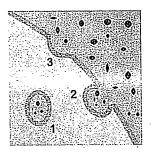


6. Using a transport protein to move particles across the membrane:



7. Describe the processes occurring in the following pictures:





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-		