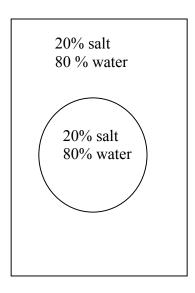
Name:	Period:	DUE DATE:	Friday	. November.	22.	2013
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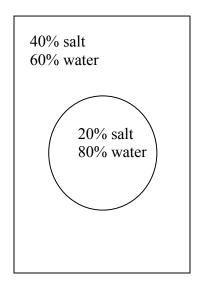
Homework 2.2 : Osmosis & Cell Transport						
1.What is the term that refers to water mo membrane?	oving across a selectively permeable					
2. Jack sprays cologne in the corner of the This is concept is known as:  a. Diffusion	room and 30 seconds later Jill smells it.					
b. Osmosis						
c. Concentration Gradient						
d. Hypertonic						
3. When Kool-Aid mixture is added to wat water turns a certain color. What is th	ter, it dissolves. After stirring, all of the e solute and the solvent in this example?					
Solute:	Solvent:					
4. In diffusion, solutes move from an area to an area of HIGH/LOW (circle one) co						
5. What is the biggest difference between	osmosis and diffusion?					
6. A hypertonic solution has	10. What will happen to bacterial cells					
MORE/LESS (circle one) solute	that normally live in freshwater are					
than a cell in that environment.	placed in salt water?  A) Water leaves the cell and the cell					
7. A hypotonic solution has	expands.					
MORE/LESS (circle one) solute	B) Water leaves the cell and the cell					
than a cell in that environment.	shrinks					
	C) Water enters the cell and the cell					
8. If I place a potato in a solution and	expands					
the next day the mass of the potato	D) Water enters the cell and the cell					
decreases it was placed in a(n) solution.	shrinks					
a. hypotonic	11. Some plants grow in salt marshes					
b. hypertonic	(very salty environments) and store					
c. isotonic	salt in their roots. This makes the salt					
d. heavytonic	concentration in the roots greater					
	than that of the surrounding water.					
9. If a cell is placed in salt water,	What most likely occurs in response to					
water will leave the cell through what	the salt concentration difference?					
process?	A) Salt moves into the roots					
	B) Water moves into the roots					
	C) Salt moves out of the roots					
	D) Water moves out of the roots					

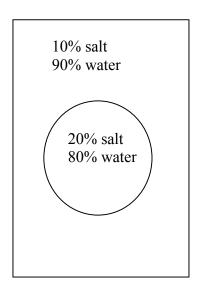
12. A cell which normally lives in a 10% saltwater solution was moved into another solution. Which of these solutions would cause the cell to increase in size at the greatest rate?

A. 0% saltwater solution
C. 10% saltwater solution
D. 20% saltwater solution

13. LABEL: Label the following SOLUTIONS as hypotonic, isotonic, or hypertonic







**DRAW:** On the pictures above, draw in ARROWS (→) to represent the way water moves in the cells

14. A cell with a salt concentration of 70% is placed in an environment with a salt concentration of 30%. Is the cell in a **hypertonic**, **hypotonic**, **or isotonic** (Circle one) solution? Draw this situation in the space below and draw an arrow to show the direction of water movement.

## 15. Check the appropriate boxes below.

Statement	Isotonic	Hypotonic	Hypertonic
	Solution	Solution	Solution
Causes a cell to get			
bigger			
Does not change the			
size of the cell			
Causes osmosis			
Causes a cell to			
shrink			