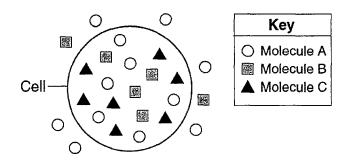
	Name: Ley	Dat		
)~	Biology /		Mr. Donato	
	Cell Transport Review Sheet			
1. Identify the following statements as true or false.				
	a. The cell membrane selective cell.	ely regulates the pass	age of substances into and out of the	
	_		nels, lipids, and protein receptors.	
	c. The cell membrane has the the cell.	same permeability to	all substances found inside or outside	
	d. The cell membrane is a double protein layer with floating lipid molecules.			
	e. The cell membrane forms a boundary that separates the cellular contents from the			
	outside environment. f. The cell membrane is capable of receiving and recognizing chemical signals.			
	-	-		
g. The cell membrane forms a barrier that keeps all substances that might harm to from entering the cell.				
	h. The cell membrane controls the movement of molecules into and out of the cell. i. The cell membrane serves as a layer of protection much like human skin.			
	2. The type of transport that require			
	3. a. Identify molecules which are able to easily pass through the cell membrane:			
	U			
	4. Identify molecules which are unal Starch, Protein	ble to easily pass thro	ugh the cell membrane:	
	5. As a class, we will draw diagrams	to help you remembe	er the difference between	
	Active Transport	and	Passive Transport (Diffusion)	
	•		•	

6. The diagram below represents a cell and several molecules. The number of molecules shown represents the relative concentration of the molecules inside and outside of the cell.

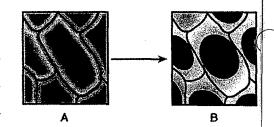


Determine the type of transport (active or passive) for each scenario described below:

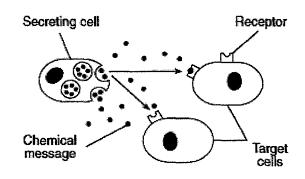
- a. Molecule B moves INTO the cell: Active
- b. Molecule C moves OUT of the cell: ___ Passive

7. Receptors aid in cell to cell communication. Certain chemicals are able to bind to them due to their <u>Specific</u> shape. (complimentary)

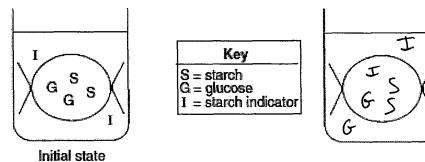
8. In order to get cell B to appear in the condition below, what type of solution had to be added to the slide? Hyperbonic Explain why the cell looks like this. The cell lost water causing the Membrane to Shrink



- 9. Circle the word that best completes the statement.
- a. Human cells will (shrink, swell) in salt water BECAUSE WATER is moving OUT of the cell.
- b. Human cell will (shrink swell) in distilled water BECAUSE WATER is moving INTO the cell
 - **The two observations above demonstrate that osmosis can occur in EITHER direction! **
- 10. When materials move **Against** the gradient, it is considered <u>Cutive</u> transport.
- 11. Using the diagram below, describe the importance of chemical messages and receptors. Receptors and messages will be Complimentary Shapes to send information from Cell to cell.

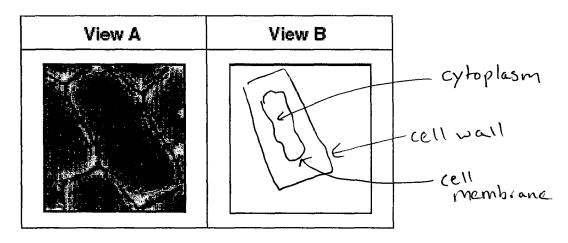


12. A model cell setup is represented in the "Initial State" diagram below. <u>**Draw**</u> where the substances would be located after diffusion had taken place.



a. At the end of the lab activity, what color was the solution INSIDE the cell? dock blace b. At the end of the lab activity, what color did the solution OUTSIDE the cell turn when Benedicts solution was added and heated?

13. The diagram below is a picture of a plant cell under a microscope. In view B, draw what it would look like if a salt solution was added. <u>Label</u> the **cell wall, cell membrane, and cytoplasm** in each diagram.



14. Describe the technique used to add salt water to the slide above.

A Small piece of paper towel was placed on one side
of the cover slip and salt water was added in drops
to the other side. As distilled water is assorbed Salt water will be gulled through
15. Why will an animal cell burst, but a plant cell will not? Lacking Cell wall

Review

Life Functions and the Cell

1. Organize the following terms from MOST complex to LEAST complex:			
organism, organelle, cell, organ, tissue			
Organism -> Organ -> Tissue -> Cell -> Organelle			
2. A single cell organisms has tiny structures that perform the 8 life functions. These tiny			
structures are referred to as Oiganelles.			
3. Active Transport requires an energy molecule known as ATP			
produced by the life function cellular respiration, which occurs in the organelle known as the			
mitochondria.			