Name:	KEY	Block:	Date:	
Biology 1	2 - Cell Memb	rane & Transpo	ort – Review Worksheet	
⇒ Part A: Definitions: De			S, IN AS FEW WORDS AS CLARITY ALLOWS.	
i. cell membrane	cell		of every cell, controls what goes in and out of each	
ii. diffusion	concentrat	movement of molecules from region of greater concentration to region of lesser concentration.		
iii. concentration gradie	nt	the difference in concentration between two regions		
iv. solute		the solid that is dissolved in a solution		
v. solvent		the liquid that dissolves the solute in a solution		
vi. osmotic pressure		the pressure of water moving across membranes caused by a concentration gradient.		
vii. isotonic solution		solution that has same concentration of solute as the cells it surrounds		
viii. hypertonic solution		solution that has greater concentration of solute as the cells it surrounds. Will cause cell to shrink		
ix. hypotonic solution	solution th cells to bu		on of solute as the cells it surrounds. Will cause	
x. plasmolysis	shrinking o	of a plant cell (wilting) due	e to being place in a hypertonic solution.	
xi. turgor pressure	pressure o	on inside of plant cell again		
xii. facilitated transport		•	ks with the conc. gradient and requires no energy.	
xiii. crenation		of animal cells placed in h	**	
xiv. active transport	Carrier-me	ediated transport that work	ks against the conc. gradient and requires energy.	
xv. endocytosis	the cell me	embrane.	ng vesicle around substance outside the cell with	
xvi. phagocytosis	,		enough to be seen with light microscope)	
xvii.pinocytosis		e is needed)	small particles (small enough that an electron	
xviii. exocytosis	contents o	n the outside.	inside cell fuses with cell membrane, depositing	
xix. glycolipid	identificati	carbohydrate attached to phospholipid on cell membrane. Often serves in cell identification and communication.		
xx. Fluid Mosaic Model		odel of membrane structu ty ("mosaic") of protein mo	ure. A phospholipid fluid sea is embedded with a olecules.	
concentration.	ement of molecules f ement of <u>water</u> acros solution of 0.01% so on would by hyperton	ss a selectively permeal ugar.	6	
5. Turgor pressure is be 6. Give an example: a. of diffusion in the b. b. of facilitated transport c. of active transport 7. List 3 ways in which i. goes from area of less	an animal cell in a hest exemplified by ploody port active transport diffe 1 to area of greater	ypertonic solution? It los acing a plant cell in a h the movement of O ₂ from t some sugars enter the cell the concentration ([]) of Na	ses water to medium shrivels up. <u>rypotonic</u> solution. the air sacs into the blood	
ii. requires carrier proteir				
iii. requires expenditure o	of energy			