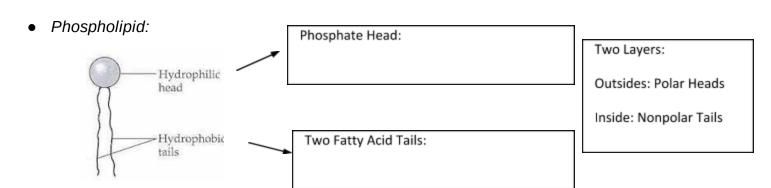
The Cell Membrane: Guided Notes

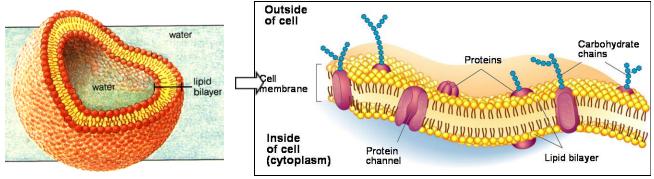
•	The cell membrane	the cell, reg	ulating the	of materials
	into and out of the cell.			
•	Lipid Bilayer: A	layer of	that ma	ake up the membrane

MACROMOLECULES: LIPIDS



Other Lipids Include:

CELL MEMBRANE STRUCTURE



	1		
Phospholipids: Arranged so h	nydrophilic () ends face	and
hydrophobic () tails create the		
Transmembrane Proteins:			
Cholesterol:			
Glycolipids and Carbohydrat	tes:		
. This is a book it. How do n			

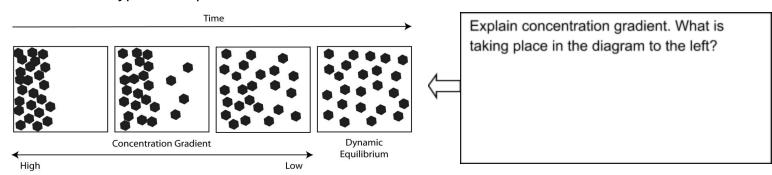
 Think about it: How do molecules such as glycolipids and surface carbohydrates play a role in organ transplant recipients?

The Fluid Mosaic Model:

Selectively Permeable:

PASSIVE TRANSPORT: OSMOSIS AND DIFFUSION

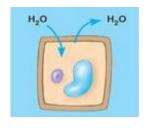
- Passive Transport is:
- Three types → Simple diffusion, facilitated diffusion, osmosis

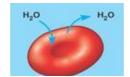


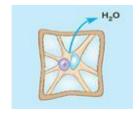
Osmosis:

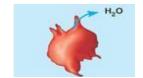
Solvent vs. Solute:

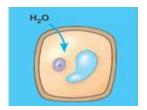
HOW OSMOSIS WORKS













ACTIVE TRAN	<u>ISPORT</u>			
• Active	Transport is movement of	AGAINST their		
o N	Novement from to	concentration	on.	
0 _	is REQUIRED.			
Types →				
o F	Protein pumps:			
o E	Bulk Transport: Larger	are transported by	that merge	
V	vith the cell membrane. (Examples: I	Exocytosis and Endocytosis)		
	EXOCYTOSIS	ENDOCYTOSIS		
Extendellular fluid				
HOMEOSTAS	<u>IS</u>			
• Homeo	stasis is the process by which an or	ganisms	environment is kept	
at(stable) in spite of changes in the environme				
o E	examples include:			
• Cells ca	n maintain homeostasis through ac	ive and passive transport and	buffers.	
о А	buffer is a chemical that can	or the p	Н	

o Buffer Example: