Cell membranes

	BIO.5	I can develop and use a model to illustrate the hierarchical organization of interacting life systems that provide specific functions. NGSS.HS.LS1-2		
	BIO.5.1	I can list and explain the characteristics of life.		
Ì	BIO.5.2	I can compare cells by type (pro/eukaryote, animal/plant).		
	BIO.5.3	I can explain the structure and function of plasma membranes.		
	BIO.5.4	I can define and model active and passive transport.		
	BIO.5.5	I can define homeostasis and give an example		
	BIO.5.5	I can explain and link the terms and concepts relating to the principles of cellular structure and function.		
	BIO.5.6	I can provide evidence towards the growth in my understanding of principles of cellular structure and function.		

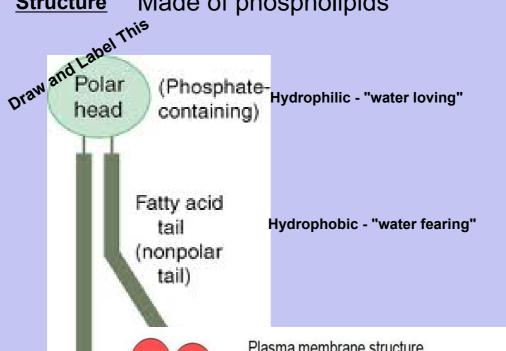


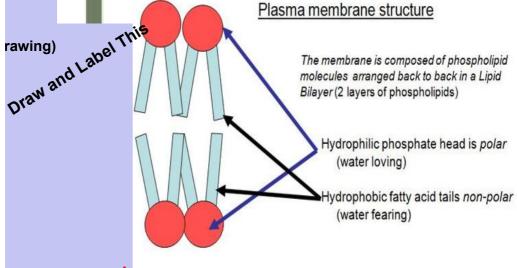
Plasma(Cell) Membranes

2 Functions

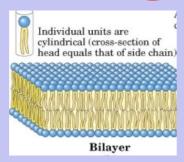
- 1. forms boundary-separates cell from surroundings
- 2. selectively permeable--only lets certain things in and out of the cell

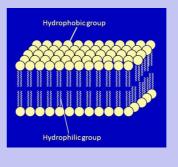
Structure * Made of phospholipids

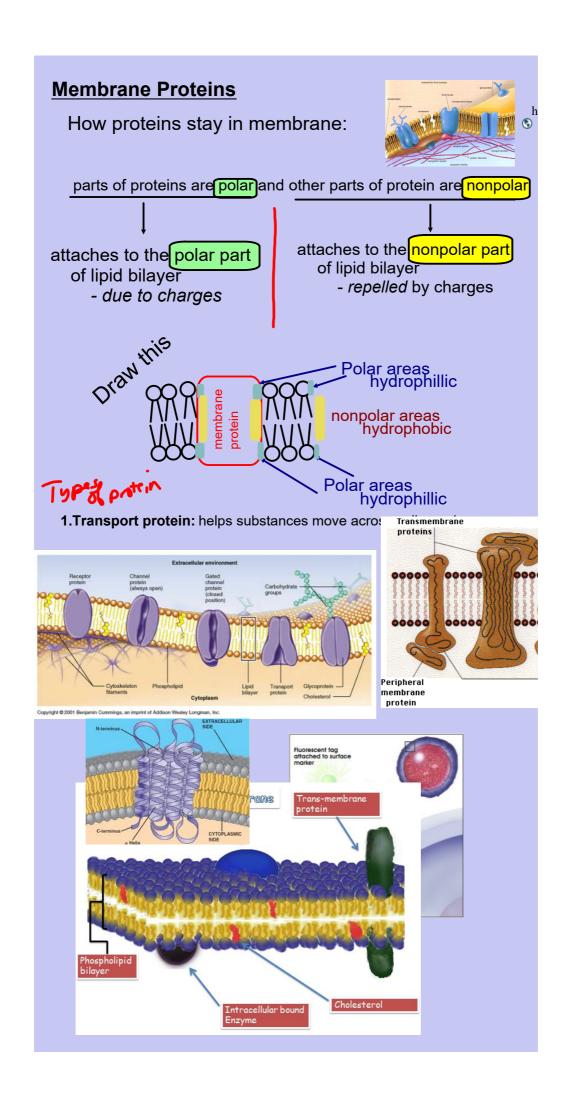




Lipid bilayer-2 layers of phospholipids





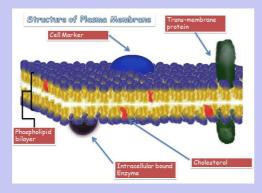


Membrane Proteins

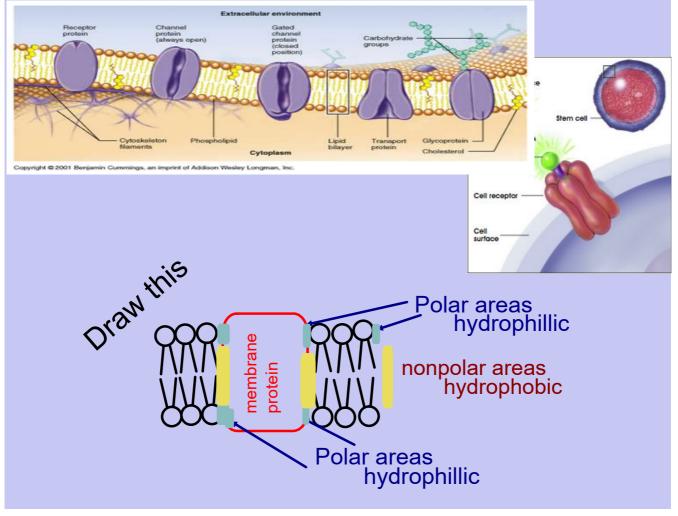
Types of proteins in the membrane



1. Transport protein: helps substances move across cell membrane



- 2. Receptor protein: recognizes and binds to substances outside the cell
- 3. Enzyme: assists chemical reactions inside the cell
- 4. Cell-surface marker: identifies cell type



	define	picture
1. plasma membrane		
2. selectively permeable		
3. phospholipid		
4. lipid bilayer		
5. hydrophilic		
6. hydrophobic		
7. polar		
8. nonpolar		
9. transport protein		
1		•

1.Draw a phospholipid. Label: polar, nonpolar, hydrophilic, hydrophobic
2. Draw a lipid bilayer with a trans-membrane protein.
3. What are the 2 functions of a plasma membrane?