Definitions activity

Match the terms to their definitions.

*Use lines. Go to 'Insert' -> 'Shapes' in Word.

Phospholipid	
*Phospho = Phosphate	
*Lipid = Fatty Acid	
Hydrophobic	
*Hydro = Water	
*Phobic = Fearing	
Hydrophilic	
*Hydro = Water	
*Philic = Loving	
Cholesterol	
Cholesterol	

Water attracting. Caused by being polar.

Molecule with a fatty acid tail. Stabilises membrane fluidity.

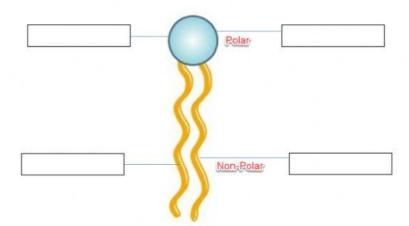
Molecule with a phosphate head and two fatty acid tails.

Water repelling. Caused by being non-polar

Phospholipids

Use your definitions task to label the diagram of the phospholipid. Include: Phosphate head; lipid tails; hydrophobic; hydrophilic

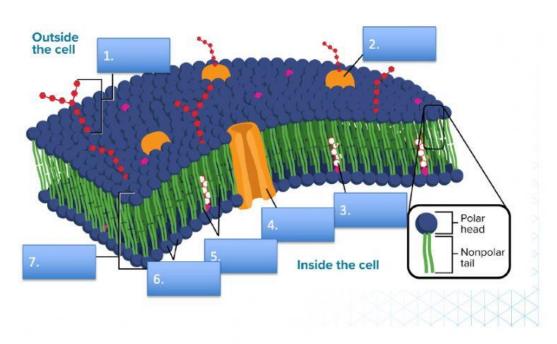
*If distance, use text boxes. Go to 'Insert' in word.





Part 1: Label the different components of the plasma membrane

Structure of the Plasma Membrane



- 8. where will we find the extracellular fluid _____
- 9. where will find the cytoplasm _____

Phospholipid bilayer	Membrane pr	otein Polar l	nears	cholesterol
Carbohydi	rate chain	Non-polar tails	Trans	sport protein



Part 2: Match each of the following molecule with its correct function:

Carboh	ydrates	Receptor proteins	Transport proteins	Phospholipid			
Phospl	nolipids	Phospholipid heads	Phospholipid tails	Cholesterol			
1.	1.0	membrane is composed of _					
2.	are arranged where the polar heads are closest to the water molecules on either side of the membrane and the fatty acid (nonpolar) tails forming the interior of the membrane. This orientation means the tails are farthest away from water molecules on either side of the membrane.						
	This part has a phosphate group that makes it polar or attracted to water: These are two fatty acid chains that are non-polar – or repelled by water						
5.	This molecule helps to prevent the fatty-acid tails of the phospholipid bilayer from sticking together, which contributes to the fluidity of the plasma membrane.						
6.	These molecules stick out from the plasma membrane. They define the cell's characteristics and help cells identify chemical signals						
7.	They span the entire membrane and create tunnels through which certain substances enter and leave the cell. They move needed substances or waste materials through the plasma membrane and therefore contribute to the selective permeability of the plasma membrane.						
8.	92 75 75	are found on the outer surf inside of the cell.	ace of the plasma membrane	, they transmit			
		e inner surface anchor the pl	asma membrane to the cell's	internal support			

