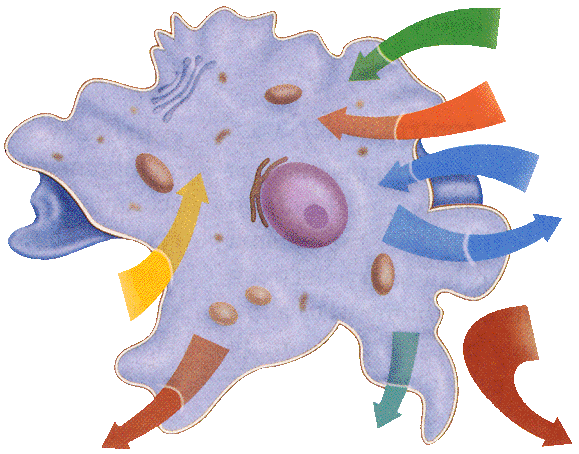
* The **cell membrane** is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ barrier that determines which substances enter and leave the cell.
* Think of a pasta strainer
  + What does the strainer “select” for, or what passes through?
  + What does not pass through?
* The **selective permeability** of the cell is mainly caused by the way \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ interact with water.
* A **phospholipid** is a lipid made of a \_\_\_\_\_\_\_\_\_\_\_ group and two \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ chains
* The phopshate group is commonly called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and it is \_\_\_\_\_\_\_\_\_\_\_\_
  + So it is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



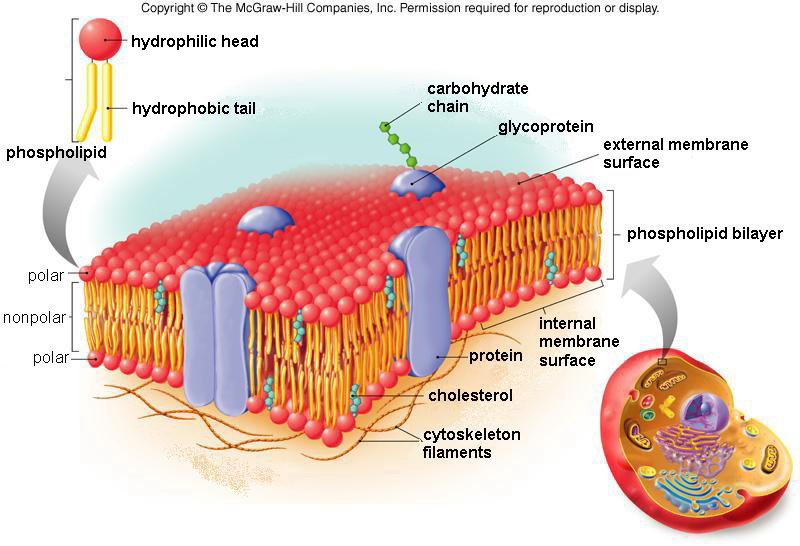
* The fatty acid chains are commonly called \_\_\_\_\_\_\_\_
* and they are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + So it is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is found inside and outside of the

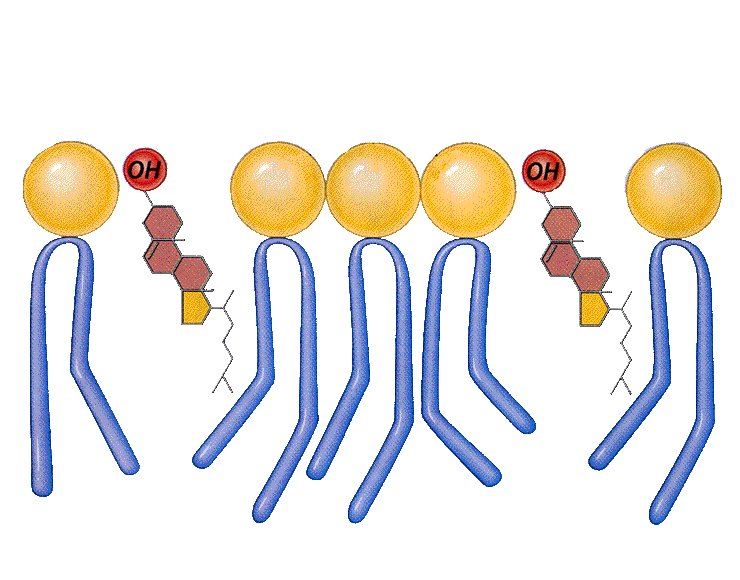
Cell so the tails must arrange themselves \_\_\_\_\_\_\_\_\_ from water

* Cell membranes are made of a \_\_\_\_\_\_\_\_\_\_\_\_ layer of

phospholipids, called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* The tails are on the \_\_\_\_\_\_\_\_\_\_\_\_ and the heads are on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[](http://www.google.com/url?sa=i&rct=j&q=plasma+membrane&source=images&cd=&cad=rja&docid=M78w90ZdrzbrIM&tbnid=LXvdqB3ue_iXxM:&ved=0CAUQjRw&url=http://legacy.hopkinsville.kctcs.edu/instructors/Jason-Arnold/VLI/Module%202/m2cellstructure/m2cellstructure3.html&ei=IkN9Ut3-JY_rkQefkIDAAg&bvm=bv.56146854,d.eW0&psig=AFQjCNE2oQD_hiyiNTbG9Q69eRoCqpfkLQ&ust=1384027256057297)



This arrangement prevents \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ polar molecules from moving freely through a cell membrane because they are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by nonpolar tails

The cell membrane also contains various proteins which are made up of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

As we learned in chapter 2, some amino acids are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and some are \_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Types of Cell Membrane Proteins | Function |
|  |  |
|  |  |
|  |  |
|  |  |

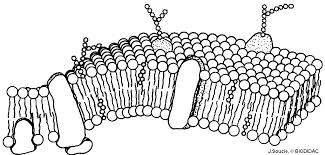
Fluid Mosaic Model:

* The cell membrane contains many parts…like a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* It is also not \_\_\_\_\_\_\_\_\_\_\_\_\_, it is fluid and moves
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ molecules are also found throughout the cell membrane
  + They prevent the nonpolar tails from \_\_\_\_\_\_\_\_\_\_ to each other
  + Without cholesterol, the cell membrane could become rigid and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Color & label the parts of the plasma membrane according to the instructions below

Phospholipid heads green Phospholipid tails yellow Cholesterol orange Marker (Glycoproteins) blue

Other proteins red

[](http://www.google.com/url?sa=i&rct=j&q=plasma+membrane&source=images&cd=&cad=rja&docid=VeTy8nj62icEyM&tbnid=TPkrCrNhWK2NPM:&ved=&url=http://biodidac.bio.uottawa.ca/thumbnails/filedet.htm?File_name=CELL004B&File_type=GIF&ei=90J9UobXKInRkQf2hYHYAg&bvm=bv.56146854,d.eW0&psig=AFQjCNE2oQD_hiyiNTbG9Q69eRoCqpfkLQ&ust=1384027256057297)