* 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_





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

