Name	Class/Period	Date	1

## **Cut & Paste Plasma Membrane**

		- •		
17.	$r \cap c$	ナハヘ	nc	۰
$\boldsymbol{\omega}$	rec	LIU	113.	_
		•••	<u></u>	•

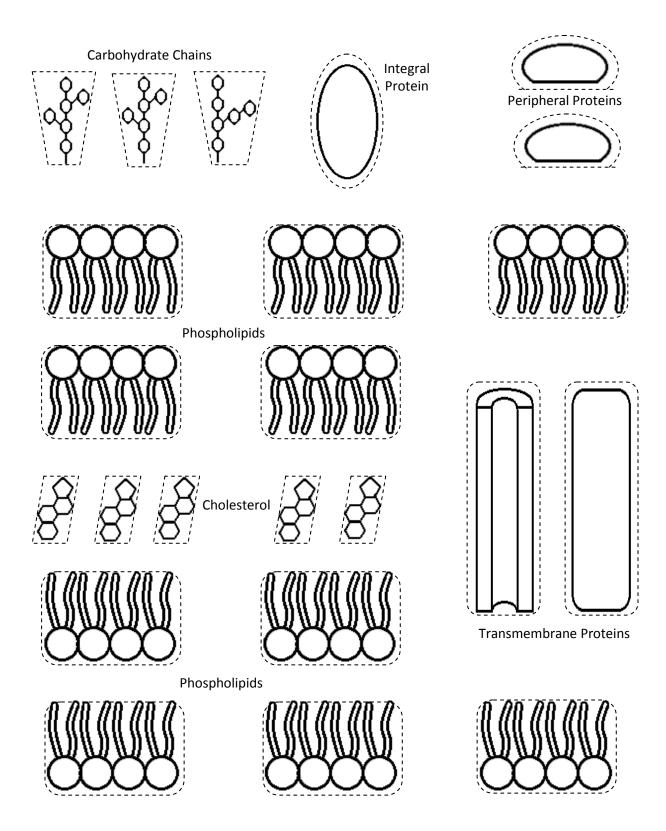
<ol> <li>Color the structures on the "Plasma Membrane Structures" hand</li> </ol>	1	Color the structures	on the "Plasma	Membrane	Structures"	handout
---	---	----------------------	----------------	----------	-------------	---------

- 2. **Cut** around the structures using the dashed lines as a guide.
- 3. Arrange the structures on the "Plasma Membrane Model" handout.
  - Use the dashed line on the "Plasma Membrane Model" handout as a guide as you position the phospholipid molecules.
  - Use the carbohydrate chains to make at least one *glycoprotein* and at least one *glycolipid*.
  - Think about how to incorporate the proteins into the model. You must include *integral*, *peripheral*, and *transmembrane* proteins.
  - You may use your book or other appropriate resources to help you organize your model. All structures must be correctly incorporated into the model.
- 4. When satisfied with the arrangement, **glue** all structures in place. Remember, a little glue goes a long way. Too much glue will cause the model to wrinkle.
- 5. Neatly **label** the following on your plasma membrane model:

<ul><li>Phospholipid</li></ul>	☐ Hydrophilic region	☐ Cholesterol
☐ Polar head	☐ Integral protein	□ Carbohydrate chain
☐ Nonpolar tail	☐ Peripheral protein	☐ Glycolipid
☐ Hydrophobic region	☐ Transmembrane protein	☐ Glycoprotein

- 6. **Define** the following terms on the "Plasma Membrane Model" handout.
  - Fluid Mosaic Model
  - Selectively permeable

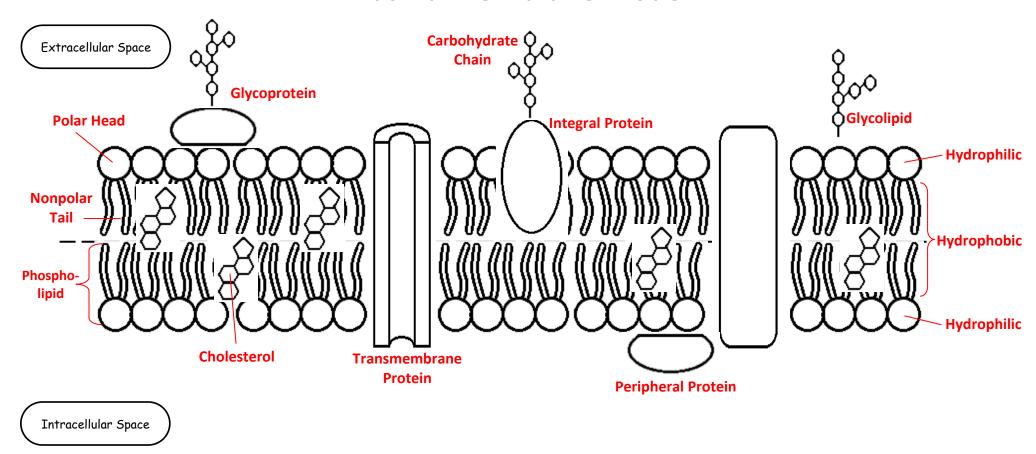
## **Cut & Paste Plasma Membrane Structures**



Name		Class/Period	Date
	Plasma Mem	brane Model	
xtracellular Space			
ntracellular Space			
d Mosaic Model -			
ctively Permeable -			

 $\hbox{@}$  A-Thom-ic Science 2016. For classroom use only. Do not post online.

## **Plasma Membrane Model**



Fluid Mosaic Model - A model describing the plasma membrane as a flexible phospholipid bilayer interspersed with proteins that are free to drift within the membrane.

Selectively Permeable - A property of the plasma membrane that allows some molecules to enter and leave the cell while preventing other molecules from crossing.