

Name _____ Date _____ Hour _____

Cell Membrane Model

Directions:

Build a 2-D model of the cell membrane showing its structure. Your model should have the following parts labeled correctly for full credit.

- Phospholipid Molecule within the membrane
- Individual Phospholipid Molecule
 - Hydrophobic head
 - Hydrophilic tail
- Transfer Protein
- Lipid Bilayer
- Carbohydrate molecules

Research: Using your text and/or internet research

1. What three functions does the cell membrane perform for the cell?

2. What types of molecules can easily pass through the membrane without help?

3. Why are transfer proteins an important and necessary part of a cell's membrane structure?

4. Cells are in a “watery” environment both inside and outside, how does the membrane stay together if parts of the phospholipid molecule are hydrophobic (hate water)?
