Name_____Block____

Cell Membrane Coloring Worksheet

The cell membrane is also called the ______ membrane and is made of a phospholipid ______ in the phospholipids have a hydrophilic (water attracting) _____ and two hydrophobic (water repelling) _____ and allow water and other _____ molecules to pass through into or out of the cell. SKETCH AND LABEL a phospholipid coloring the heads red and the tails blue.

PHOSPHOLIPID

Embedded in the phospholipid bilayer are <u>proteins</u> that also aid in transportation within the cell. Proteins called <u>in tegral</u> proteins go all the way through the bilayer, while <u>peripheral</u> proteins are only on one side.

other and certain molecules.

Integral proteins are also called **channel** proteins. Some of the membrane proteins have carbohydrate **coapters** attached to help cells in recognize each

List functions of the cell or plasma membrane:

a. Help maintain homeostasis

b. Exchange materials like food, water, wastes

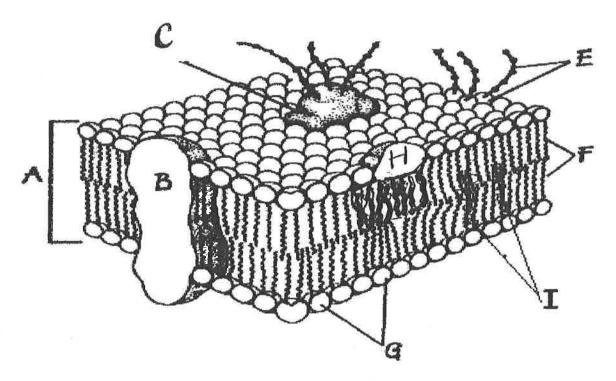
c. hater, oxygun, coz can more freely

d. It is simiperable or selectively

permeable allowing certain molecules

Correctly color code and identify the name for each part of the cell membrane.

| Letter | Name/Color | Letter | Name/Color |
|----------------|---------------------------|--------|----------------------|
| A | Phospholipid bilayer (no | | Peripheral protein |
| 0 | color) | | (red) |
| \overline{R} | Integral protein (pink) | | Cholesterol (blue) |
| F | Fatty acid tails (orange) | H | Glycoprotein (green) |
| <u>G</u> | Phosphate heads (yellow) | E | Glycolipids (purple) |



Match the cell membrane structure or its function with the correct letter from the cell membrane diagram.

| Letter | Structure/Function | Letter | Structure/Function |
|--------|--|--------|--|
| GIC | Attracts water Helps maintain flexibility of membrane Involved in cell-to-cell recognition | FAB | Repels water Make up the bilayer Help transport certain materials across the cell membrane |