**THE PLASMA MEMBRANE**

1. Name two functions of the plasma membrane (what does it do?).
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Give an example of something that is permeable to something else.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is permeable to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The plasma membrane is selectively permeable. Describe what that means.
2. Explain why it is a good thing that your cells are selectively permeableinstead of being permeable or impermeable to everything.
3. Draw one phospholipid molecule in the box.
4. Label : **phosphate head**;

**lipid tail**;

**hydrophilic** (water-loving);

**hydrophobic** (water-fearing

1. What are phospholipids for?
2. What do the proteins in the membrane do?
3. What does the cholesterol in the membrane do?
4. The cell membrane (plasma membrane) is a Phospholipid Bilayer. Explain what that means in the box on the left, and do a quick drawing in the box on the right to show what it is.

Phospholipid Bilayer--**Drawing**

Phospholipid Bilayer--**Description**

Include: 2 layers of phospholipids, a protein, and cholesterol.

1. **HOW** does the plasma membrane help maintain homeostasis in the cell? (For an example, think about how it controls the amount of salt in a cell.)
2. Give 4 examples of materials that must be transported across cell membranes to keep your body working.