Cell Remediation:
2.02 Investigate and describe the structure and function of cells

Materials needed: Paper, colored pencils, text book or internet.

Plasma Membrane Drawing

Use the index of your text book, or "google" Fluid Mosaic Model to find a picture of a cell membrane. Draw and label a picture of the Fluid Mosaic Model of the cell membrane on a piece of white computer paper. Make sure the following parts are **labeled** and that you **color them** according to the key. Also take notes on each part to **answer the questions**.

Draw the Bilayer of Phospholipids (color the hydrophilic polar heads – blue and the fatty acid "tails" that are hydrophobic – black).

1. What does it mean if the polar heads are hydrophilic?
2. What does it mean if the fatty acid tails are hydrophobic?

Draw three different types of proteins in the cell membrane:

A. receptor proteins (colored green)
B. transport proteins (color orange)
C. peripheral proteins/enzymes (color yellow)

3. What function do these proteins play in the cell membrane?

Draw some carbohydrate/cell-surface markers on the outside surface of your cell membrane (color these red)

4. What is the function of these carbohydrates off the surface of the cell membrane?

Draw the steroid/cholesterol in the cell membrane – make sure to draw them in the correct location (color them purple)

5. What is the function of these steroid/cholesterol molecules in the cell membrane