Name _____ **Period** _____

AP Biology **Date** _____

CELL MEMBRANE / TRANSPORT DRAWING PROJECT

Produce a detailed drawing that includes the structure and function of the cell membrane. Below is a list of the cell membrane components that are required to include in your drawing. If we haven't discussed in class, then do research — textbook and Internet — to find accurate answers. The illustration must be completely hand-drawn. It also must include detailed, accurate images and labeled components.

- ❑ **Cell Membrane Structures**
  - ❑ Phospholipids
  - ❑ Cholesterol
  - ❑ Transmembrane proteins
  - ❑ Peripheral proteins
  - ❑ Glycoproteins
  - ❑ Glycolipids
- ❑ **Simple Diffusion**
  - ❑ Gradient, in proper orientation
  - ❑ Specific example of molecule appropriately using this transport
- ❑ **Facilitated Diffusion**
  - ❑ Gradient, in proper orientation, using protein channel
  - ❑ Specific example of molecule appropriately using this transport
- ❑ **Active Transport**
  - ❑ Gradient, in proper orientation, using protein pump
  - ❑ Two different types of active transport illustrated
  - ❑ Specific examples of molecules appropriately using this transport
- ❑ **Phagocytosis**
  - ❑ Example of type of substance <u>brought in</u> by this process
  - ❑ Detailed steps of process
  - ❑ Bilayer engulfing
- ❑ **Pinocytosis**
  - ❑ Specific example of substances <u>brought in</u> by this process
  - ❑ Detailed steps of process
  - ❑ Bilayer engulfing
- ❑ **Exocytosis**
  - ❑ Specific example of substances <u>secreted</u> by this process
  - ❑ Detailed steps of process
  - ❑ Bilayer releasing

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