

Cell Membrane Poster

Reference: Campbell (9th Ed.) pages 120, 127

Using colored pencils and/or markers, **SKETCH** and **COLOR** the cross-section of a cell membrane onto a large piece of poster paper. In your drawing, you should **INCLUDE** and **LABEL** the following:

- Extracellular side of membrane
- Intracellular side of membrane
- Phospholipids
- Integral protein
- Peripheral protein
- Fibers of ECM (collagen, fibronectin, proteoglycan complex)
- Microfilaments of cytoskeleton
- Cholesterol
- Glycolipid
- Glycoprotein
- Simple diffusion of a substance
- Facilitated Diffusion:
 - Channel protein (with example of a specific substance passing through)
 - Carrier protein (with example of a specific substance passing through)
- Active Transport*:
 - Sodium-potassium pump (show Na⁺ and K⁺ in drawing)
 - Proton pump (show H⁺ in drawing)
- Cotransport of sucrose-H⁺

On the back of the poster, **LIST** and **DEFINE** the 17 terms that are underlined.