

Cell Membrane Poster

Reference: *Campbell Biology in Focus* (2nd Ed.) pages 95 & 101

A. 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 **specific substance** (see Figure 5.15)
- Facilitated Diffusion: (see Figure 5.15)
 - Channel protein (with the name of a **specific substance** passing through)
 - Carrier protein (with the name of a **specific substance** passing through)
- Active Transport*: (see Figure 5.15)
 - Sodium-potassium pump (see Figure 5.14 - show Na⁺ and K⁺ in drawing)
 - Proton pump (see Figure 5.16 - show H⁺ in drawing)
- Cotransport of Sucrose-H⁺ (see Figure 5.17)

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