

Unit: Cell Membranes and Transport (Ch. 7, section 3)

"I can..."

- _____ *describe* the structure and function of cell membranes and their components
- _____ *explain* why diffusion and osmosis are necessary for cells to survive.
- _____ *differentiate* between endocytosis and exocytosis.
- _____ *compare* and *contrast* the characteristics of simple (passive) diffusion, facilitated diffusion, and active transport.
- _____ *predict* what will happen to plant and animal cells when they are placed in isotonic, hypotonic, and hypertonic solutions.
- _____ *determine* the effects of a variable (i.e., temperature or concentration) on the rate of diffusion.

Essential Vocabulary /Concepts:

| | |
|-----------------------|----------------------------|
| active transport | isotonic |
| bulk transport | osmosis |
| cholesterol | phagocytosis |
| concentration | phospholipid bilayer |
| diffusion | phagocytosis |
| endocytosis | pinocytosis |
| exocytosis | protein carrier |
| facilitated diffusion | protein channel |
| hypertonic | simple (passive) diffusion |
| hypotonic | |