

CELLULAR TRANSPORT UNIT GUIDED READING

- As a whole, what is the function of the plasma membrane?
- What is a phospholipid? Why are phospholipids important to the structure of the plasma membrane?
- Draw one phospholipid and label its parts. Be sure to mention which part is polar/hydrophilic and which part is nonpolar/hydrophobic. Review.....what does it mean for a molecule to be polar/hydrophilic and for a molecule to be nonpolar/hydrophobic?
- What is the function of the cell surface proteins and transmembrane proteins within the plasma membrane?
- Contrast solute vs. solvent.
- Describe what it means for a molecule to diffuse from one location to the another. Can you support your description by providing an example from real life?
- What is a concentration gradient?
- What is the difference between diffusion and osmosis? Hint.....it has something to do with the movement of water!!
- Contrast between a hyperosmotic (hypertonic), isoosmotic (isotonic) and hypoosmotic (hypotonic) solution.
- Contrast between endocytosis and exocytosis. Contrast between phagocytosis and pinocytosis.
- Contrast between facilitated diffusion and diffusion.
- Contrast active vs. passive transport.