

## Chapter 3 Lesson 4 Notes: Cell Environment

1. **Selectively Permeable:** In the cell membrane, some substances can pass through the while others cannot.
2. **Diffusion:** the process by which molecules move from an area of *higher* concentration to an area of *lower* concentration.
  - a. Cells move oxygen, sugar, water, and other nutrients through this process.
  - b. How do they move?
    - Molecules are in constant motion.
    - Molecules collide as a result.
    - This spreads the molecules apart in different directions until equilibrium as been achieved.
3. **Osmosis:** the diffusion of water through a selectively permeable membrane.
  - a. Many cell processes depend on osmosis in order to work.
4. **Active Transport:** the movement of materials through the cell membrane (usually against the concentration flow) using cellular energy.