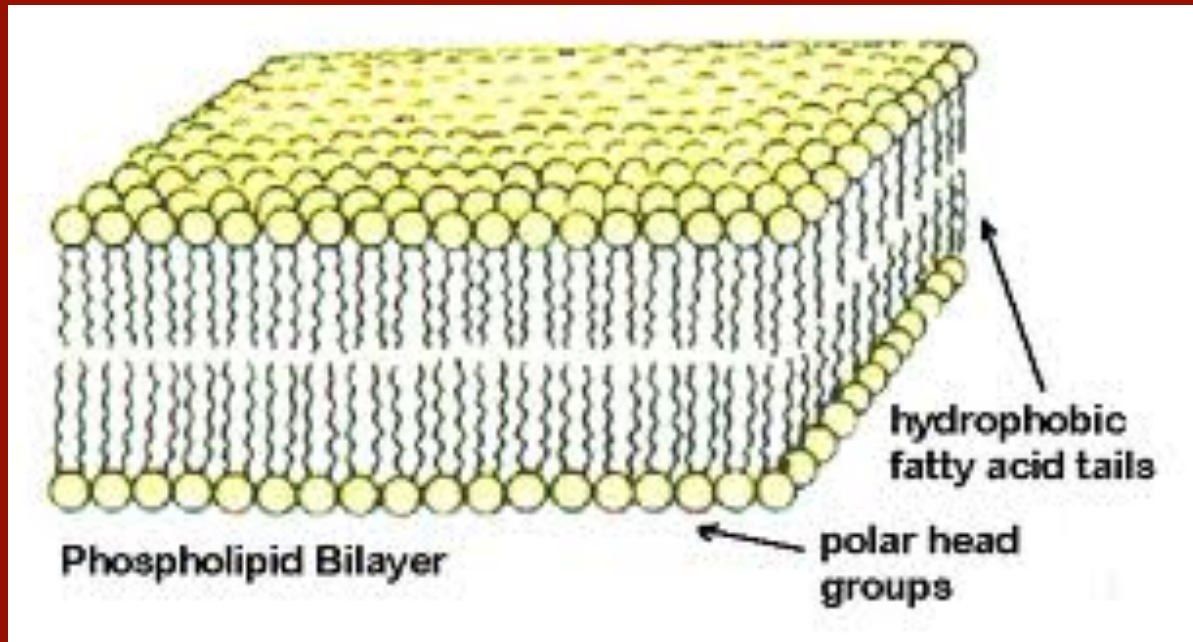


7-3: Movement Through the Membrane

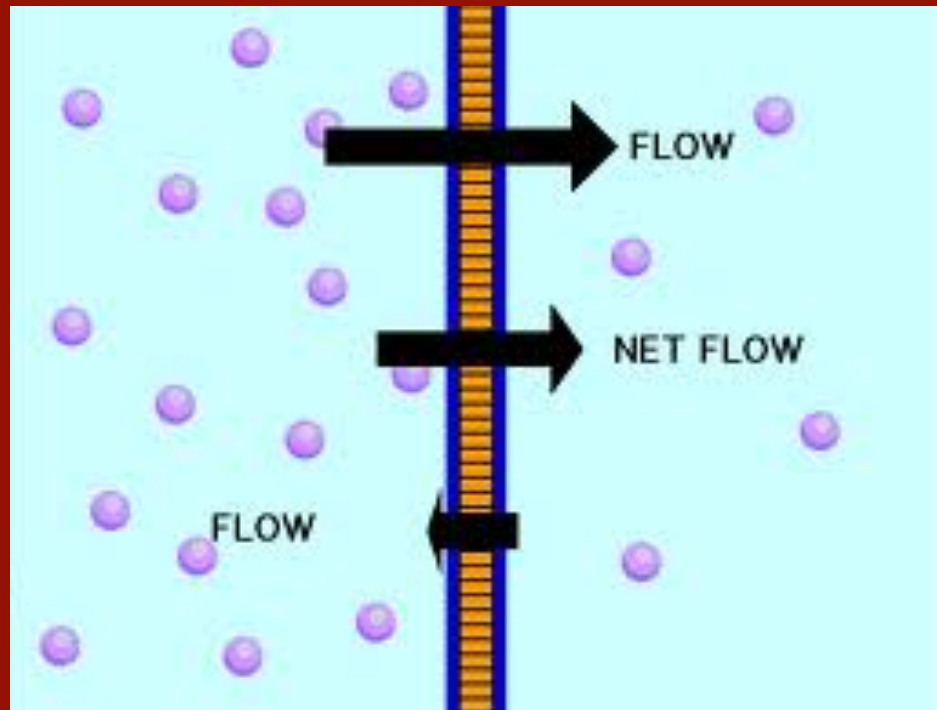
Essential Questions:

- What are the main functions of the ***cell membrane***?
- What happens during ***diffusion***?
- How does ***osmosis*** apply to the dynamics of ***isotonic***, ***hypotonic*** and ***hypertonic*** solutions?
- What is the difference between ***active transport*** and ***diffusion***?

1. Cell Membrane: lipid bi-layer

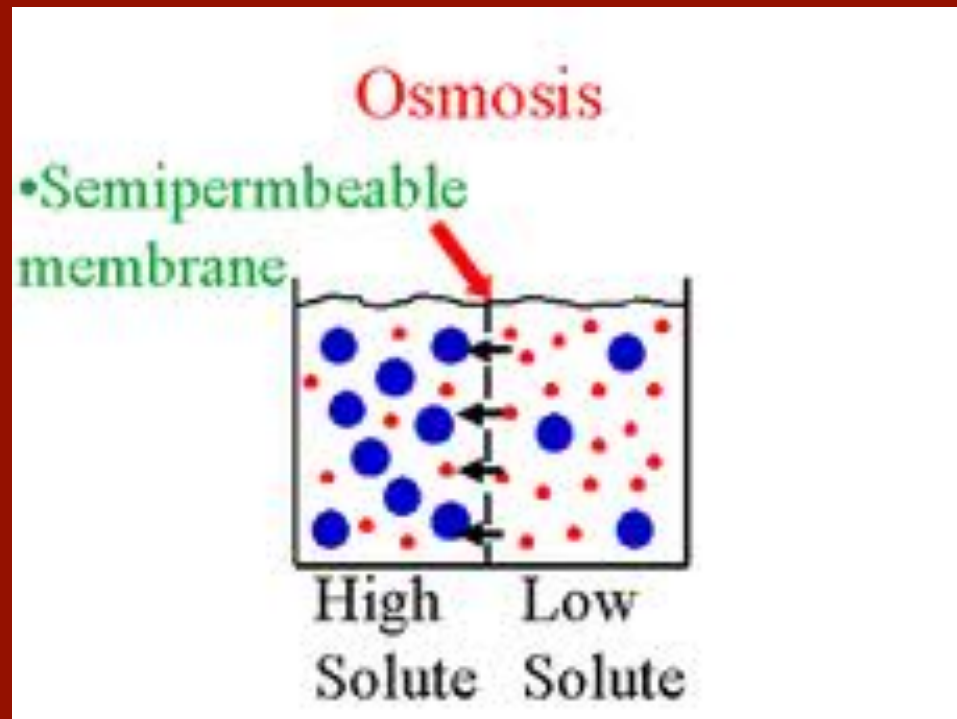


2. Diffusion: goes with concentration gradient – no energy from cell needed



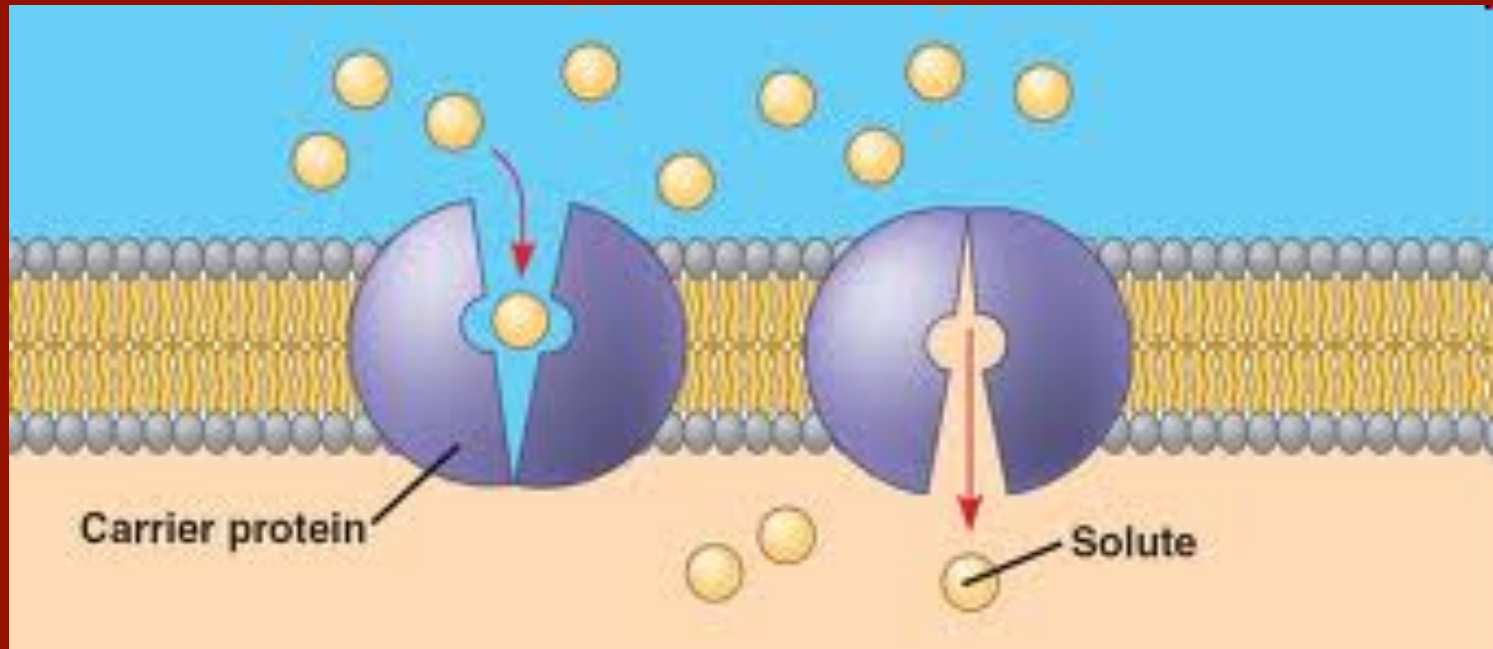
3. Osmosis

- a. Diffusion of water through a selectively permeable membrane – no energy from cell needed
- b. How osmosis works



4. Facilitated diffusion

1. No energy from cell needed
2. How fac. diff. works



5. Active transport

1. Goes against concentration gradient
2. Therefore, cells must use energy
3. How it works:

