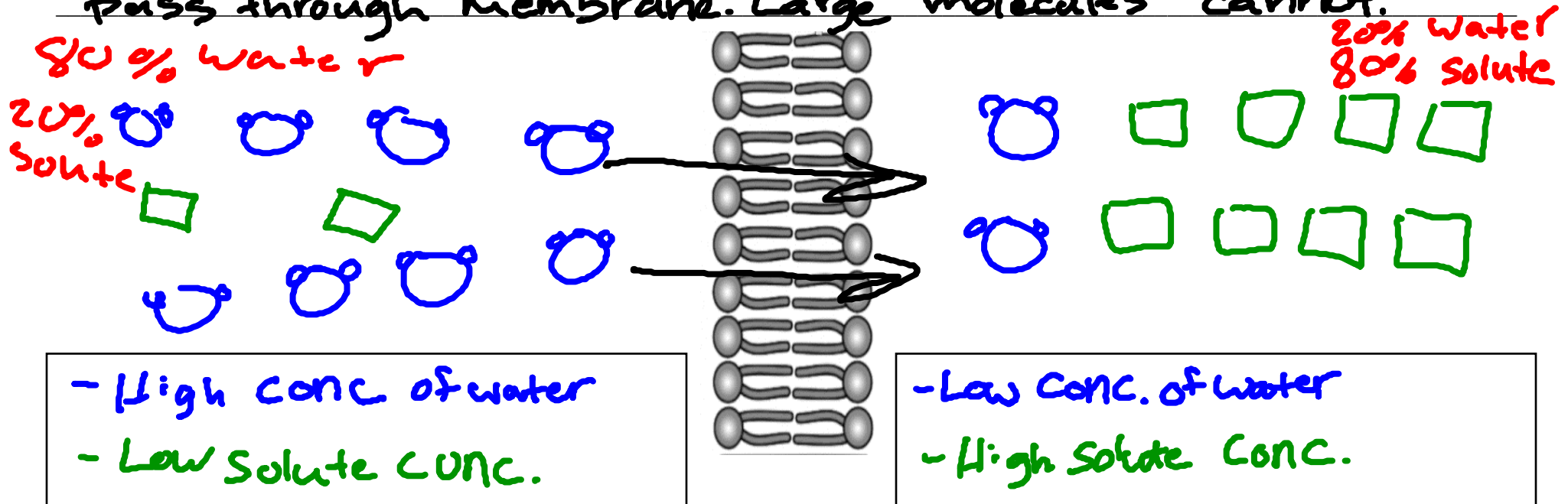


Osmosis Notes

Osmosis the diffusion of water across a cell membrane

Occurs because the membrane is selectively-permeable. Water can pass through membrane. Large molecules cannot.



Examples

- Saline (IV) solution equal solute conc to red blood cells
- Drinking ocean water causes dehydration FASTER than not drinking
- Mummification uses salt to pull out water from the body
- Beef jerky uses salt to pull out water from meat
- Salt on slugs salt pulls water out of slug → melt
- Salt water fish in a freshwater tank water will rush into fish cells → explode

In osmosis, water travels to areas of high Solute Conc.

Osmosis is Passive transport: water diffuses down its OWN Conc. gradient
(no energy required)

3 Osmosis Environments:

Environment name			
Solute concentration outside cell			
Direction of water diffusion			
Cell change			
Diagram (choose 1)			
Example(s)			