

**Diffusion** :- the movement of particles from an area of higher concentration to an area of lower concentration.

is the amount of substance in a given space.

ex. the smell of fresh baked bread "spreading" throughout the room.

- the cell membrane is **selectively permeable**
  - ↳ this means that it has many small openings that let some particles pass through it but not others
  - ↳ particles move by diffusion.

fig. 1.32 (pg. 42)

**Osmosis** :- is the diffusion of  $H_2O$  through a selectively permeable membrane.

-  $H_2O$  moves from higher concentration to lower concentration

- cells contain  $H_2O$  and need it to survive
- osmosis is how the cell gains and loses its needed  $H_2O$

fig. 1.35 (pg. 45)