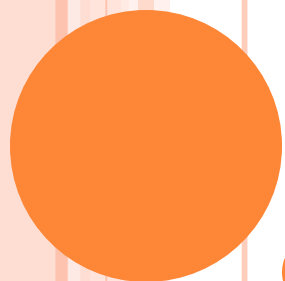


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PRINCIPLE OF CHEMISTRY

Particulate Theory of Matter

Stephen Carridice

PARTICULATE THEORY OF MATTER

- **Key points:**

- Osmosis only occurs when a semi-permeable membrane is present, but diffusion can happen whether or not it is present.
- Osmosis only allows solvent molecules to move freely, but diffusion allows both solvent and solute molecules to move freely.
- Osmosis happens when molecules move from lower to higher concentrations, but diffusion happens when it is reversed.

Give an example of how you can experimentally show diffusion and Osmosis.

- **Diffusion:** KMnO_4 in Water, **Osmosis:** Dried carrot in water or pawpaw leaves in water.



PARTICULATE THEORY OF MATTER

- **Heating curves** show how the temperature changes as a substance is **heated** up. **Cooling curves** are the opposite. They show how the temperature changes as a substance is cooled down
- Define :
- Specific latent heat
- Latent heat of Vaporization
- Latent heat of fusion

