How?

Liquids that dissolve, mix. Molecules mingle.

All gases mix, molecules move freely.

Particles on the surface of a solid get surrounded by solvent particles (solvation) and lifted out of the solute.

This is called the Water of Solvation. NOT to be confused with sAlvation.

Remember... Jesus saves and water dissolves!

How do you find the extent of hydration?

MgSO₄ x 7H₂O

• Each formula unit of MgSO4 is surrounded by 7 water molecules. In the tesale.co.uK crystal, i.e. water of hydration.

How to find the Extent of Hydration

- 1. Use % of water to find masses of M
- 2. Convert to moles using of hula mass
- 3. Find molecular

How do you express concentration?

- Mass % composition
 - Mass of solute/total x 100%
- Molarity
 - Mols solute/L solution (M)
- Molality
 - Moles solute/kg solvent (m)
- Mole Fraction
 - Moles solute/moles total
- Density
 - Mass/volume (g/mL or g/mL)