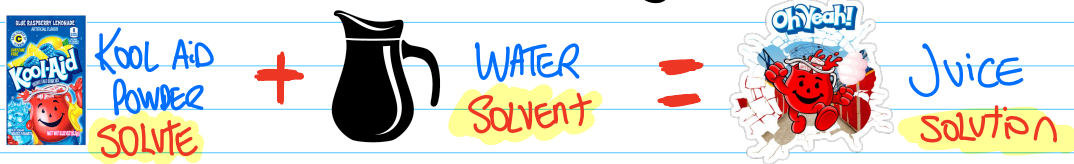


SOLUBILITY & CONCENTRATION

DISSOLVING A SUBSTANCE IN ANOTHER MAKES A
SOLUTION

SUBSTANCE THAT IS DISSOLVED → SOLUTE

SUBSTANCE THAT DOES THE DISSOLVING → SOLVENT



CONCENTRATED SOLUTION: LARGE AMOUNTS OF SOLUTE IN SOLVENT

DILUTED SOLUTION: SMALL AMOUNTS OF SOLUTE IN SOLVENT

CONCENTRATION OF SOLUTION = AMOUNT OF SOLUTE DISSOLVED
IN A SPECIFIC AMOUNT OF SOLVENT.

EX: 50g of solute dissolved in 100mL of water
= 50g/100mL water.

UNSATURATED SOLUTION

→ MORE SOLUTE CAN BE DISSOLVED IN THE SOLVENT



SATURATED SOLUTION

→ NO MORE SOLUTE CAN BE DISSOLVED IN THE SOLVENT

SOLUBILITY is the maximum amount of a solute you can dissolve in a fixed volume of solvent at a given temperature.

Compound	Solubility (g)
salt	35.7
baking soda	6.9
carbon dioxide	0.35
sugar	180
hydrogen	0.00019
oxygen	0.007
ammonia	92