

Solution is homogeneous mixture.

Solvent-Larger part of the solution.

Solute-Smaller part of the solution.

Gas Solution: AIR

Solvent=Nitrogen (78%)
Solute=Oxygen (21%)



Liquid Solutions:

Iced Tea

Solid solute

Liquid Solvent



Vinegar

Acetic Acid
solute

Water solvent



Club Soda

CO₂ solute

Water
solvent



Solid solutions:

Dental Amalgam:

Mercury solute

Silver solvent



Brass:

Copper solvent

Zinc solute

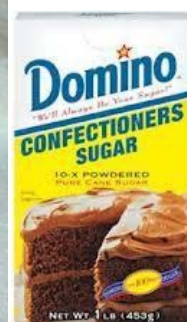


Factors that affect the rate of solution

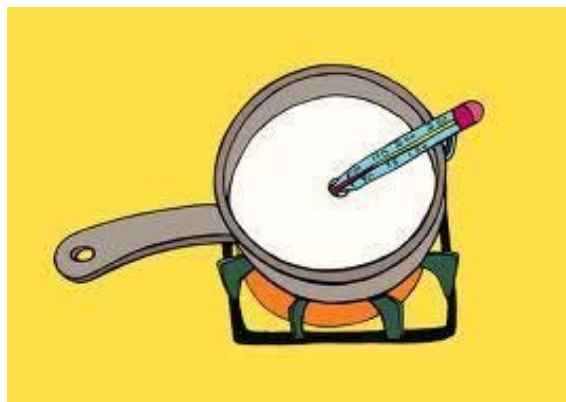


Stir the mixture-
Stirring, shaking, or
mixing dissolves
solute faster

Crush the solute- Breaking or crushing the solute creates more surface area for the solvent to dissolve the solute. Faster dissolving.



Heat the mixture- Heating the solution makes the molecules move faster allowing them to hold more solute. Dissolving happens faster.



****Opposite
with gas
solute**

Solubility Graphs

