Solutions

(homogeneous mixtures)

Solution: A solute dissolved in a solvent.

Aqueous solution: A solution with water as the solvent.

Consider 3 containers of water,



Consider 3 containers of water, each with cubes of sugar dissolved into them. Each cube represents an equal amount of sugar dissolved in the water.



The water from which container would taste the sweetest? The water from which container would taste the least sweet?





Concentration of a Solution

A ratio of the amount of solute to the amount of solution.



Mass: The amount of matter contained in an object. Measured in grams (g) (also mg & kg) (1000 mg = 1 g) (1000 g = 1 kg)(1 mg = 0.001 g) (1 g = 0.001 kg)**Volume:** The amount of space occupied by an object. Measured in litres (L) (also mL) (also cm^3) (1000 mL = 1 L)(1 mL = 0.001 L) $(1 \text{ mL} = 1 \text{ cm}^3)$

Don't drink water while you study

It will lower your concentration