0. Grade 8 Science

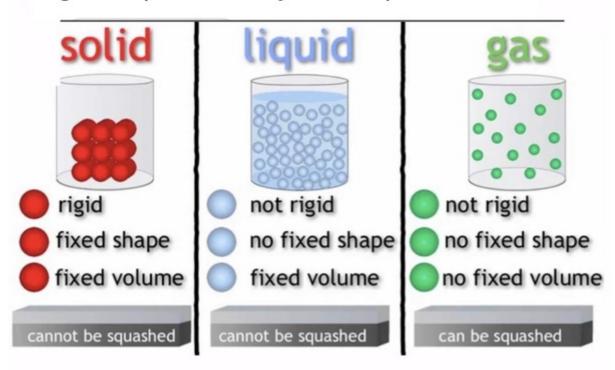
1.1

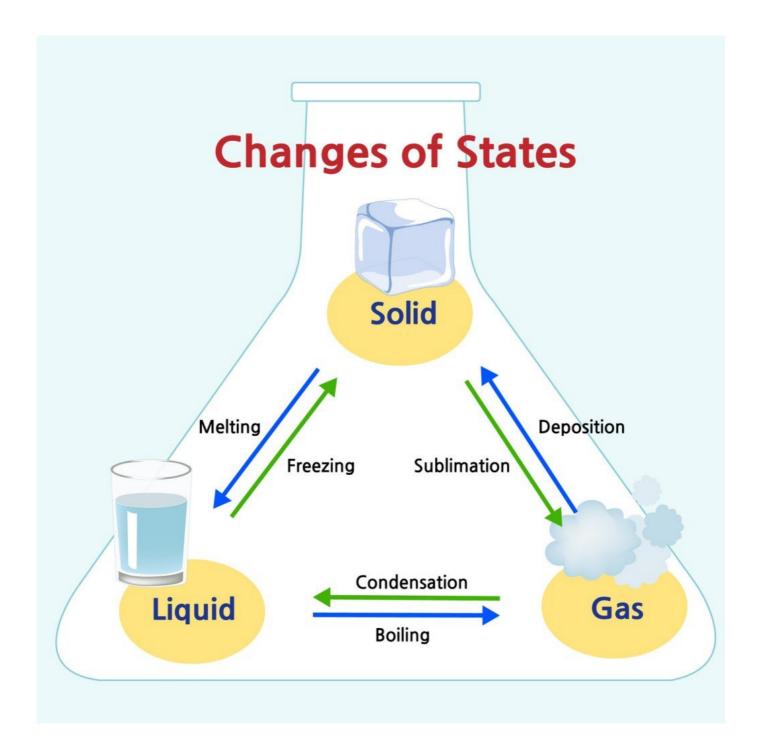
Three states of matter in terms of the arrangement, movement and energy of the particles

- · Gas spread out, most energy in particles moving freely
- · Liquid close particles, medium energy with particles moving freely
- Solid particles packed with very little energy



States of Matter - solids, liquids and gases | Chemistry for All | The Fuse.





1.3

Dilution of color occurs due to diffusion. In fluids, diffusion occurs from a higher to lower concentration of a substance.

1.4where black is beautiful, black culture should be studied and the cultural awareness of the importance of their own identity.

Def

- solvent capable of dissolving another substance, most of the time water
- solute A substance dissolved in another substance

- solution homogeneous mixture of two or more substances
- saturated solution solution in which the maximum amount of solvent has been dissolved

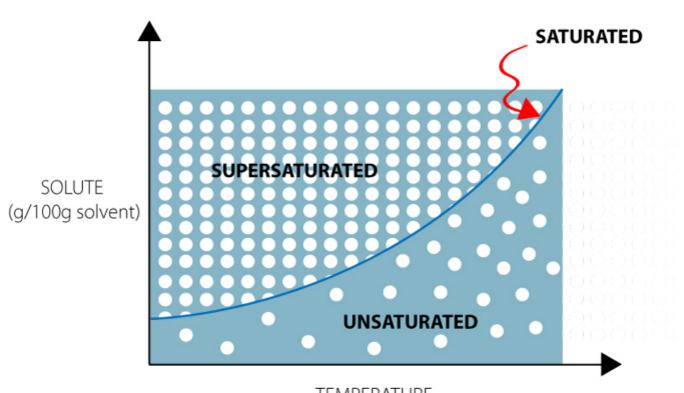
1.5

Solubility is measured in grams per 100 grams of solvent

1.6

SOLUBILITY CURVE

A SOLUBILITY CHART IS USEFUL FOR DETERMINING THE AMOUNT OF SOLUTE IN SOLVENT AT A GIVEN TEMPERATURE



TEMPERATURE

SATURATION NO MORE CAN DISSOLVE

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1.7

Solubility of a solid in water at a specific temperature can be measured by figuring out when the substance starts to not dissolve and stay as a solid.

- Compound substance that contains atoms of two or more elements combined together chemically
- Mixtures different form compounds as the different substances are not combined together chemically
- Molecule smallest particle that can have a separate, independent existence
- Molecular formula shows the number of atoms of different elements
- Relative formula mass (Mr) sum of the average atomic masses of the atoms in the formula of a compound
 - work out how many atoms of each element are in the chemical formula
 - add together the Ar values for all the atoms of each element
- Relative atomic mass (Ar) relative mass of its atoms compared to the mass of a carbon-12 atom