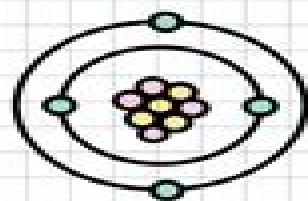


Atomic structure and the periodic table

Atomic structure



protons
neutrons
electrons

atoms have no overall charge

particle	relative mass	relative charge
proton	1	+1
neutron	1	0
electron	very small	-1

elements

elements - substances made up of atoms with the same atomic number

isotopes of an element - atoms with the same number of protons but different numbers of neutrons

relative atomic mass - the average mass number for an element

Equations, mixtures and chromatography

chemical formulas and equations

chemical formula - shows the proportion of atoms of each element in a compound

chemical equation - shows the overall change in a reaction

example:

reactants

products

word equation

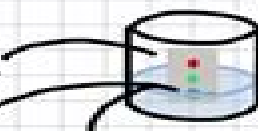
methane + oxygen → carbon dioxide + water

symbol equation



chromatogram

insoluble components stay on the base line

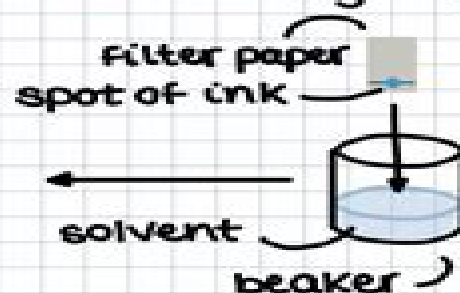


components separate as they move up the paper

submerge it



paper chromatography



filter paper

spot of ink

solvent

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