

C5.1 How are chemicals separated and tested for purity?

aqueous solvent

impure

non-aqueous solvent

soluble

chromatogram

insoluble

paper chromatography

solvent

chromatography

material

pure

stationary phase

crystallisation

melting point

R_f value

substance

filtration

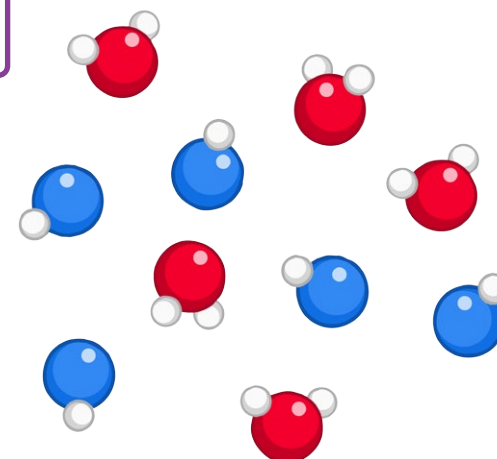
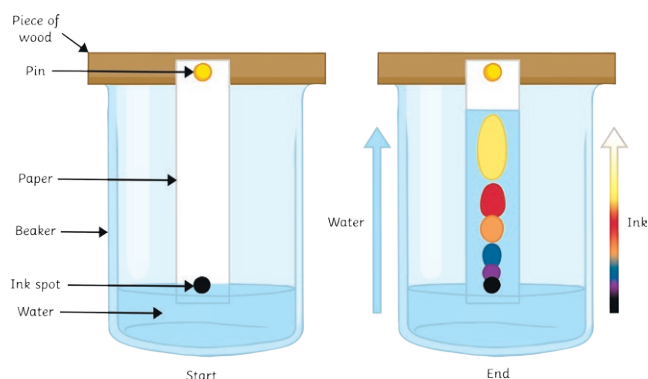
mixture

separation

fractional distillation

mobile phase

simple distillation



C5.2 How do chemists find the composition of unknown samples?

accuracy

ion

spectrum

anion

lithium

toxin

calcium

metal

wavelength

cation

potassium

copper

precipitation reaction

element

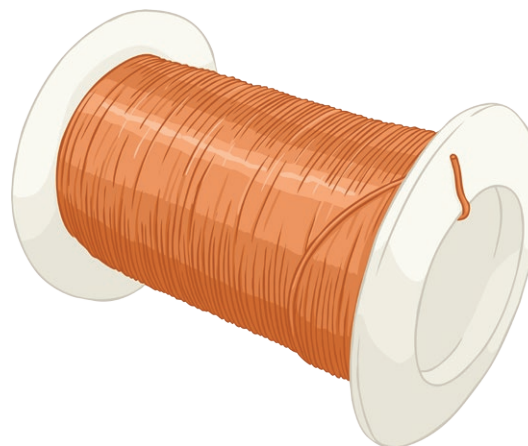
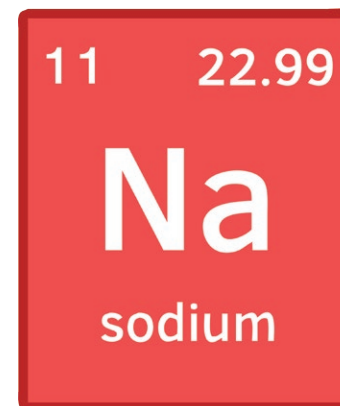
qualitative analysis

emission spectroscopy

sensitivity

flame test

sodium



C5.3 How are the amounts of substances in reactions calculated?

atom

equation

periodic table

relative atomic mass

avogadro constant

limiting quantity

product

relative formula mass

compound

mass

reactant

stoichiometry

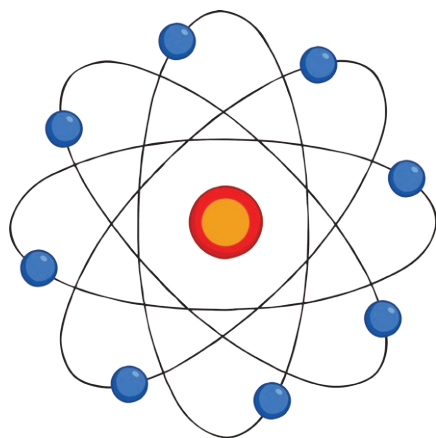
conservation of mass

mole

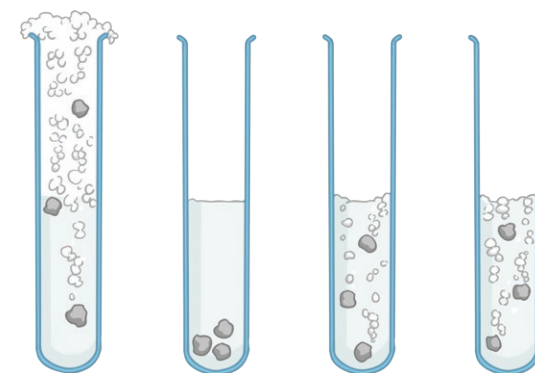
reaction

substance

particle model



Li lithium		Be beryllium																B boron		C carbon	N nitrogen	O oxygen	F fluorine	Ne neon
Na sodium		Mg magnesium																Al aluminum		Si silicon	P phosphorus	S sulfur	Cl chlorine	Ar argon
K potassium	Ca calcium	Sc scandium	Ti titanium	V vanadium	Cr chromium	Mn manganese	Fe iron	Co cobalt	Ni nickel	Cu copper	Zn zinc	Ga gallium	Ge germanium	As arsenic	Se selenium	Br bromine	Kr krypton							
Rb rubidium	Sr strontium	Y yttrium	Zr zirconium	Nb niobium	Mo molybdenum	Tc technetium	Ru ruthenium	Rh rhodium	Pd palladium	Ag silver	Cd cadmium	In indium	Sn tin	Sb antimony	Te tellurium	I iodine	Xe xenon							
Cs cesium	Ba barium	La lanthanum	Hf hafnium	Ta tantalum	W tungsten	Re rhenium	Os osmium	Ir iridium	Pt platinum	Au gold	Hg mercury	Tl thallium	Pb lead	Bi bismuth	Po polonium	At astatine	Rn radon							
Fr francium	Ra radium	Ac actinium	Rf rutherfordium	Db dubnium	Sg seaborgium	Bh bohrium	Hs hassium	Mt meitnerium	Ds darmstadtium	Rg roentgenium														



C5.4 How are the amounts of chemicals in solution measured?

accuracy

hydroxide ion (OH^-)

nitric acid

quantitative analysis

acid

mass

pipette

sodium hydroxide

burette

mole

potassium hydroxide

solute

calcium hydroxide

neutralisation

precision

solution

concentration

neutralise

sulphuric acid

dissolve

titration

hydrochloric acid

validity

hydrogen ion (H^+)

volume

