

Chemistry Triple

Foundation

Topic	Content to revise
From Paper 1	Finding atomic number in the periodic table, state symbols (s, l, g, aq), conservation of mass, naming common equipment, writing formula, naming compounds, calculating relative formula mass, litmus indicator paper, writing word equations, calculation percentage mass, calculating mass of molecules, gas tests, calculating number of atoms, atomic structure, naming acids, hazard symbols,
Groups in the periodic table	Group 1: method for reactions with water. Group 7: colours, reactivity Group 0: reactivity, physical properties.
Rates of reaction	CORE PRAC: investigating rates of reaction. Catalysts
Heat energy changes in reactions	Exothermic definition, Practical: endothermic and exothermic reactions.
Fuels	Hydrocarbon definition Saturated definition Fractions from fractional distillation Working out the molecular formula of alkenes Complete vs incomplete combustion
Earth and atmosphere Science	Earth's atmosphere and how is changed over time.
Polymers	Identifying polymers from diagrams. Problems with plastics.
Quantitative analysis: Ions tests	Negative ions tests and results, precipitation definition. CORE PRAC: identifying ions Flame tests: procedure and identifying ions
Bulk and surface properties	Properties of polymers, properties of ceramics, nanoparticle definition.

Higher

Topic	Content to revise
From Paper 1	Properties of ionic compounds, structure of an atom, naming acids, hazard symbols, gas tests, conservation of mass, calculating molecular formula, calculating number of atoms, Haber process-conditions, litmus indicator paper.
Groups in the periodic table	Group 7: reactivity, displacement reactions, ionic equations. Group 0: reactivity, physical properties.
Rates of reaction	CORE PRAC: investigating rates of reaction. Catalysts
Heat energy changes in reactions	Bond making vs bond breaking. Bond energies calculations. Reaction profiles Catalysts
Fuels	Combustion: writing equations for complete combustion
Earth and atmosphere Science	Earth's atmosphere and how is changed over time. Pollutants and their impact.
Hydrocarbons	Alkene: homologous series, addition reactions.
Alcohols and carboxylic acids	Alcohols: oxidation of alcohols, dehydration of alcohols, CORE PRAC: combustion of alcohols
Polymers	Repeat units, condensation polymerisation
Quantitative analysis: Ions tests	CORE PRAC: identifying ions Flame tests: procedure and identifying ions Testing for negative ions
Bulk and surface properties	Nanoparticles: properties and risks