

Chemistry Feb 2023 PPE – Paper 2

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, calculating relative formula mass, litmus indicator paper, writing word equations, calculation percentage mass, gas tests, atomic structure.
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
Earth and atmosphere Science	Earth's atmosphere and how is changed over time.

Higher

Topic	Content to revise
From Paper 1	Structure of an atom, 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.