

Programme of Study



Subject: Chemistry (Exam Board AQA)

Year: 12

Autumn 1

- i. Kinetics
- ii. Maxwell – Boltzmann distribution
- iii. Catalysts

Autumn 2

- i. Idea of equilibrium
- ii. Conditions of equilibrium
- iii. Equilibrium reactions in industry
- iv. Equilibrium constant, K_c
- v. Calculations using equilibrium constant expressions
- vi. The effect of changing conditions on equilibria

Spring 1

- i. Oxidation and reduction
- ii. Oxidation states
- iii. Redox reactions

Spring 2

- i. Periodicity
- ii. Properties of period 3 elements
- iii. Ionization energies

Summer 1

- i. Alkaline earth metals
- ii. The halogens
- iii. Chemical reactions of the halogen
- iv. Reaction of halide ions with concentrated sulphuric acid
- v. Using chlorine

Summer 2

- i. Introduction to organic chemistry
- ii. Naming organic compounds
- iii. Isomerism
- iv. Alkanes
- v. Fractional distillation of crude oil
- vi. Types of cracking
- vii. Combustion of alkanes
- viii. Formation of halogenoalkanes