

**Overview:**

The final elements of A level Chemistry allow us to see the links between everything you have learnt thus far.

You will study

Year 13

Chemistry

**Term 1**

Nomenclature and Isomerism, Carbonyl Chemistry, Thermodynamics, KP, Periodicity, Acids, Bases and Buffers, Amines & Polymers

N&I introduces key new organic functional groups

CC Looking at aldehydes and ketones in more detail .

T Building on Hess's Law from Y12, students learn about Born-Haber cycles and the factors affecting Lattice Energy

Pe Building on Y12, students now look at the reactions of period 3 elements and their oxides.

AB&B Learning about different type of acid and base.

A The chemistry of nitrogen and its role in organic chemistry and synthesis.

Term 2

Kinetics and Rate, Aromatic Chemistry, Organic Synthesis, Biochemistry, Electrochemistry & Transition Metals

R&R Introducing the concept of orders of reaction, how to determine the rate determining step and studying the Arrhenius equation & activation energy.

AC the chemistry of Benzene,

OS Piecing together all of the organic topics studied at A-Level

B The chemistry of biological molecules,

E How redox reactions can be manipulated

TM From the general behaviour of TMs to the chemistry of spe-

Term 3

Structural Determination, Chromatography & Inorganic Aqueous Reactions

SD How both practical and instrumental methods can be used to identify the structure of organic molecules.

C The theory behind how this simple useful technique

IAR introduction of the idea of ligands and ligand exchange to form different complexes.