

What are the aims and intentions of this curriculum?

Continuation of the GCSE AQA Chemistry course. Developing students understanding of key scientific ideas and their ability to investigate scientifically and have an in depth understanding of their findings.

Term	Topics	Knowledge covered	Skills developed	Assessment
Autumn 1	Bonding	Bonding Types- Ionic, Covalent, Metallic Bonding Structures- Giant Ionic, Giant Covalent, Simple Covalent, Metallic.	Understanding accuracy and reliability. Plotting and analysing graphs.	Written assessment using GCSE exam questions on topics covered so far in years 9 and 10
Autumn 2	Periodic Table	The development and history of the periodic table The specific properties and interactions of Group 1/7/8 elements The transition metals their similarities and differences to other parts of the periodic table	Understanding accuracy and reliability. Collecting valid results. Plotting and analysing graphs.	
Spring 1	Organic Chemistry	The naming and structure of organic chemical groups, alkanes, alkenes, alcohols, carboxylic acids and esters. The specific properties of each group and its interactions.	Practical skills - planning investigations using correct terminology for variables. Understanding accuracy and reliability. Collecting valid results. Plotting and analysing graphs.	Written assessment using GCSE exam questions on topics covered so far in years 9 and 10
Spring 2	Energy Change	Exothermic and Endothermic reactions. Where energy is stored and transferred to in chemical reactions.	Calculating energy change from practical experiments Collecting valid results. Plotting and analysing graphs. Exothermic and Endothermic Practical Task	
Summer 1	Analysis	Chromatography techniques, melting point analysis. Instrumental Analytical Techniques Ion identification by chemical interaction	Ion Identification Practical Task Chromatography Practical Task	Written assessment using GCSE exam questions on topics covered so far in years 9 and 10
Summer 2	Practical skills Improving learning from year 10 topics	EBI work - developing skills and knowledge covered over the year so far that are shown to be areas of weakness, based on QLA from assessment	EBI work - developing skills and knowledge covered over the year so far that are shown to be areas of weakness, based on QLA from assessment	