Chemistry

Year 13

Overview	Students will build on the AS content of the AQA chemistry specification. Students will continue to be taught by two teachers that cover half of the specification each. This simultaneous teaching enables depth and breadth of curriculum coverage. They will build on their AS knowledge of atomic structure, bonding, chemical calculations, energetics, kinetics, organic chemistry and chemical analysis. They will also build on their practical skills by completing investigative work that compliments the learning of the theory whilst providing opportunity for students to experience the use of more complex apparatus and techniques. A minimum of 12 of these will be assessed over the course. All work, whether theoretical or practical, is designed to prepare students for the next stage of their life, whether that be further academic study or work, and to enable them to become informed citizens that can make positive contributions to society.

Autumn Term	Teacher A: Energetics, Thermodynamics & Acids and Bases Teacher B: Aromatic Chemistry, carboxylic acids and derivatives, Amines, Polymers and Amino acids	**Assessment** ½ termly synoptic assessments **Digital Platforms:** Seneca Homework Carousel Learning, UpLearn – 2hrs per week ***Chemistry Required Practical***: Prac 9 Acid Base; Prac 6 Test for organic groups; Prac 10b Prep Ethyl ethanoate

Spring Term	Teacher A: Electrode potentials, Transition metals Teacher B: Organic synthesis, NMR, Chromatography	**Assessment** ½ termly synoptic assessments **Digital Platforms:** Seneca Homework Carousel Learning, UpLearn – 2hrs per week ***Chemistry Required Practical***: 10a Prep Asprin, Prac 8 EMF of an electrochemical cell , Prac 12 TLC

Summer Term	Teacher A: Reaction of ions & synoptic revision Teacher B: Synoptic revision	**Assessment** ½ termly synoptic assessments **Digital Platforms:** Seneca Homework Carousel Learning, UpLearn – 2hrs per week ***Chemistry Required Practical***: Prac 11 indentify TM ions

Useful Resources for Supporting Your Child at Home:	**Homework:**
Carousel – revision & study pack flash-cards **Seneca –** interactive revision **Physics and maths tutor –** online exam question bank & flashcards **Savemyexams –** useful exam practice website **Chemguide**-revision **UpLearn –** 2hrs per week	Seneca, Carousel, targeted worksheets, research projects, flipped learning opportunities, UpLearn – 2hrs per week