DROITWICH SPA HIGH SCHOOL AND SIXTH FORM CENTRE

Life. Changing. Learning.

Year 9 Fundamental Ideas (Chemistry - AQA)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	**C1a Atomic Structure and the Periodic Table** Atoms, elements and compounds, separation techniques, electronic configuration	**C1b The Periodic Table** Trends in the Periodic Table, history of the Periodic Table	**C2 Bonding, Structure and Properties of Matter** Ionic, covalent and metallic bonding, allotropes of carbon, changes of stage	**C2 continued**	**C3 Quantitative Chemistry** Moles, balancing equations, reacting masses, concentration	**C3 continued**
Assessment	End of unit synoptic test	End of unit synoptic test	Homework and exam questions	Synoptic test	Homework and exam questions	End of unit synoptic test End of year PPE

Building on Prior Learning	C1 recaps and builds on prior knowledge from KS3 relating to particles and reactions. Learning components at the start of lessons remind students of prior learning and point out links to prior topics.
Links with other subjects	Maths – fractions, standard form, basic mathematical functions, rearranging equations. Tabulating and analysing data. English – comprehension and literacy skills. Physics – atomic structure and isotopes.
Extracurricular opportunities	STEM Ambassadors will make visits to school.
A successful learner in this subject will demonstrate	Students are required to memorise key facts and be able to recall them, and to apply their knowledge to real life situations. A successful student will be able to link concepts together. Demonstrate the ability to work scientifically by following a method, identifying basic apparatus, collecting data, illustrating data and drawing conclusions.
Impact on personal development	Science will help students to become logical thinkers and problem solvers with a better understanding of the world around them. Demonstrating resilience and the ability to consider moral and ethical implications of scientific developments.

Ways to support student learning in this subject
• Encourage the completion of homework • Encourage discussions of science issues that arise in the news • Discuss science lessons and their progress • Encourage a positive attitude towards science • Periodic Table and personalised learning checklists (PLC) • Encourage students to use Seneca Learning (https://www.senecalearning.com/) to consolidate knowledge and build on recall skills. • Practice units, unit conversions, standard form and rearranging equations and encourage the use of maths skills