

Plan Of Learning For The Year (Unit/Topic/Project Context)

Half Term 1

- Chemistry - Atomic Structure

Half Term 2

- Chemistry – Atomic Structure and Bonding

Half Term 3

- Chemistry – Bonding

Half Term 4

- Chemistry – Analysis

Half Term 5

- Chemistry - Analysis

Half Term 6

- Review of the Year to include end of year assessment and feedback

Feedback, Retrieval & Assessment	Super curriculum opportunities / extra-curricular activities	Cultural Capital, SMSC, Careers and Futures
<ul style="list-style-type: none"> • Regular self and peer assessment • Regular Formative Assessment • Termly Teacher Assessment (FFA) • Termly Formal Assessment (FA) • Whole Class Feedback 	<ul style="list-style-type: none"> • Use of Seneca to Support Learning both as homework and independent study 	<ul style="list-style-type: none"> • Career Link in Each Unit, linking to the Gatsby Benchmark • Opportunities for Practical work that both links and applies to industry • Transferable skills via practicals such as problem solving, group work and working to a deadline.

Common misconceptions	Connecting New Knowledge	Challenge for all
<ul style="list-style-type: none"> • Atoms do not weigh anything • Relative particle spacing among solids, liquids, and gases is incorrectly perceived and not generally related to the densities of the states. (Microscopic model does not represent macroscopic properties.) • Materials can only exhibit properties of one state of matter. • Particles possess the same properties as the materials they compose. For example, atoms of copper are "orange and shiny," gas molecules are "transparent," and solid molecules are "Hard." 	<ul style="list-style-type: none"> • Regular revisiting of core vocabulary and key concepts, building key knowledge for GCSE • Provision of Knowledge Organisers for each topic given at the start • Provision of Curriculum map 	<ul style="list-style-type: none"> • Regular use of scaffolds and structured practice • Clearly defined success criteria and use of clear feedback model to show next steps to improve • Stretch activities built in to each lesson