



Curriculum Intent for Chemistry at St Joseph's College

The aim of the KS3 Chemistry curriculum is for students to master the key skills and apply their knowledge to challenging and unfamiliar contexts. We have planned and implemented a rigorous curriculum, which builds on the prior learning and skills acquired at KS2. The content studied and skills acquired during Year 7, are revisited and extended on in Year 8.

The KS3 Curriculum provides a solid foundation for the rigour of the content at GCSE. The KS3 curriculum is delivered across two years and GCSE courses commence in Year 9. This maximises the opportunity to revisit the foundation topics of each specialism, and for students to make greater connections between content across the topics.

In Year 7, students' understanding of Working Scientifically and lab safety, are likely to vary due to variation in Science provision between primary schools and therefore initial lessons are spent reinforcing expectations for safety in the laboratory and planning investigations. The curriculum has been designed to engage learners through practicals and demonstrations, and help them develop their skills for Working Scientifically, while acquiring new knowledge across four distinct topics.

The Year 8 Curriculum builds on the knowledge and skills gained in Year 7. It covers the remainder of the KS3 Science National Curriculum. Students continue to develop their skills and acquire new knowledge, in addition to revisiting and building on the content covered in Year 7.

Our sequence of topics and lessons is followed by all to ensure all students are delivered same coherent curriculum, with content delivered in the same order.

<p>Physical Chemistry</p> <ul style="list-style-type: none"> - The Particle Model - States of Matter - Diffusion 	<p>Molecular Chemistry</p> <ul style="list-style-type: none"> - Elements - Atoms - Molecules - Compounds - Chemical formula
<p>Chemical Reactions</p> <ul style="list-style-type: none"> - Word Equations - Burning Fuels - Thermal Decomposition - Conservation of Mass - Exo & Endothermic Reactions 	<p>Neutralisation Reactions</p> <ul style="list-style-type: none"> - Acids & Alkalis - Indicators & pH - Making Salts