Nobel

Year: 9

Subject: Chemistry

Vision **The purpose of KS3 is to embed the building blocks of scientific knowledge and enquiry, and to inspire a sense of wonder and awe at the world around us.**

In year 9 the curriculum looks at applications of Chemsitry in today's world and explores how these discoveries were made. There is an end of KS3 formal assessment for which revision materials and guidance are provided. Students then begin an introduction to the Chemistry GCSE course with content that is common to both the combined award and Triple award courses. Students will begin their options course in September of Year 10.

As well as the assessments detailed below there will be a baseline test in the Christmas term that will be used to help identify suitable candidates for the triple science GCSE.

	Foci	Assessment	Knowledge Organiser
Unit 1	**Chemistry New Technology and Turning Points** This topic is particularly important as it demonstrates how scientists work together to form ideas. Whether this is in the development of ideas regarding the atom (as a specific example) or in the reviewing of information in scientific journals. In the past, this may have taken place over several years and lifetimes, due to the development in knowledge and equipment. Due to the creation of the internet, scientists around the world can work together at the same time. After the discovery of the atom scientist were able to research nanoparticles. This topic also looks at how other new technology uses the knowledge from chemistry today and will continue to in the future.	Formative assessments throughout the topic including multiple choice questions, extended writing, and practical work End of topic Test	**Chemistry New Technology and Turning Points**
Unit 2	To review work from years 7, 8 and 9 including working scientifically concepts and practical work.	End of Key Stage 3 written assessment.	**Revision Booklet Working Scientifically**
Unit 3	• **AQA KS4 GCSE - Atomic Structure and The Periodic Table** This topic starts by looking at the basic concepts in chemistry starting with the structure of the atom and the discovery of the atoms. We then look at how the periodic table and the properties of certain groups in the periodic table.	Formative assessments throughout the topic including multiple choice questions, past exam question practice, extended writing, and practical work End of topic Test	**Atomic Structure and The Periodic Table**