



**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.

Year 7 introduces the concept of particles and their behaviour in solids, liquids and gases, then looks at specific particles; atoms, elements and compounds. The next topic looks at how to separate these particles and then finally how the elements fit in to the periodic table.

As well as the assessments detailed below there will be 2 cumulative tests which will include Biology, Chemistry and Physics topics and an end of year exam.

	Foci	Assessment	Knowledge Organiser
Unit 1	<ul style="list-style-type: none"><li><b>Particle Behaviour</b></li></ul> <p>This topic introduces a scientific model that is used to explain key properties of matter, and key aspects of physical and chemical change. Substances, elements and compounds use the of particle representations when considering different substances.</p>	<p>Formative assessments throughout the topic including multiple choice questions, extended writing, and practical work</p> <p>End of topic Test</p>	<b>Particles Behaviour</b>
Unit 2	<ul style="list-style-type: none"><li><b>Elements, Atoms and Compounds</b></li></ul> <p>This is core to understanding all matter and hence all chemistry. The language used to describe matter provides the fundamental knowledge. This topic builds upon the previous topic of particles and then will be used to build towards our understanding of the periodic table and physical and chemical reactions.</p>	<p>Formative assessments throughout the topic including multiple choice questions, extended writing, and practical work</p> <p>End of topic Test</p>	<b>Elements, Atoms and Compounds</b>
Unit 3	<ul style="list-style-type: none"><li><b>Separation Techniques</b></li></ul> <p>This topic explains the relationship between solutes, solvents, and solutions. Different methods for separating mixtures are looked at including filtration, crystallisation, distillation and chromatography.</p>	<p>Formative assessments throughout the topic including multiple choice questions, extended writing, and practical work</p> <p>End of topic Test</p>	<b>Separation Techniques</b>
Unit 4	<ul style="list-style-type: none"><li><b>The Periodic table</b></li></ul> <p>The core to understanding chemistry requires an understanding of the elements in periodic table and its layout. The periodic table has not just randomly been placed together it has been put in an order and put in groups and periods for a reason. This topic then looks at the properties of groups 1, 7 and 0.</p>	<p>Formative assessments throughout the topic including multiple choice questions, extended writing, and practical work</p> <p>End of topic Test</p>	<b>The Periodic Table</b>