



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 Forces, then looks at Energy stores and transfers. Motion starts to link the topics together looking at how objects move. The final topic looks at the space and our position within the solar system.

As well 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	<p>Forces Forces are the fundamental of all movement and static physical systems. Know what forces are, how to measure them along with specific examples. Includes the effect of balanced and unbalanced forces on objects.</p>	<p>Formative assessments throughout the topic including multiple choice questions, extended writing, and practical work</p> <p>End of topic Test</p>	<p>Basic forces</p>
Unit 2	<p>Energy Energy is fundamental to everything in the universe! Power generation and consumption of energy and its effect on the world around us. The difficulties associated with energy efficiency and limitations thereof. Careers in engineering, power generation, product design etc.</p>	<p>Formative assessments throughout the topic including multiple choice questions, extended writing, and practical work</p> <p>End of topic Test</p>	<p>Energy</p>
Unit 3	<p>Motion The motion topic is a relatively new idea to year 7 students. They are aware of the concept of motion and speed but have encountered the speed equation or be aware that we can calculate speed when we know distance and time. This module lays the foundations for some tricky concepts in later years.</p>	<p>Formative assessments throughout the topic including multiple choice questions, extended writing, and practical work</p> <p>End of topic Test</p>	<p>Motion</p>
	<p>Space Space is a topic that students often enjoy, however, sometimes do not fully understand. A knowledge of the world around you is so important. It links ideas about rays, movement, and gravity. The idea of exploring space and one day potentially colonising space means that we need to know about the different structures, and conditions beyond the earth.</p>	<p>Formative assessments throughout the topic including multiple choice questions, extended writing, and practical work</p> <p>End of topic Test</p>	<p>Space</p>