

Curriculum Information

Year Group: 8

Subject: Science

GCSE course followed: AQA Combined Trilogy/Separate Sciences

Objectives	<p>The KS3 Science Curriculum at Bramcote College follows the National Curriculum to provide the foundations for understanding the world through the disciplines of Biology, Chemistry and Physics. Science has and continues to have an impact on all of us and developing the scientists of the future is essential to the world's future prosperity. Students should be taught essential aspects of the knowledge, methods, processes and uses of science. Through the development of a secure foundation in scientific knowledge and concepts, students are encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. Students are encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.</p> <p>The content delivered across years 7 – 9 is designed to develop scientific knowledge and conceptual understanding through the disciplines of Biology, Chemistry and Physics. This will allow students to develop an understanding of the nature, processes and methods of science through different types of scientific enquiries to enable them to answer scientific questions about the world around them. We aim to ensure that students are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.</p>
Part A – Sept - Feb	<p>Each group will complete the content listed below in a different order.</p> <p>Biology 1 – Healthy Lifestyles & Adaptations and Inheritance</p> <p>Chemistry 1 – Metals and Acids & The Earth</p> <p>Physics 1 – Pressure and Motion & Energy</p>
Part B – Feb – July	<p>Biology 2 – Ecosystems and Environment</p> <p>Chemistry 2 – Separation Techniques & The Periodic Table</p> <p>Physics 2 – Electricity and Magnetism</p>
How is progress measured?	<p>Students will sit an End of Unit Test made up of short answer questions and an Extended Writing PIN Assessment and a reading Assessment Biology, Chemistry and Physics content. They will sit 3 of each in total across the year. They will also sit 6 End of Topic Tests spaced throughout the year. The assessments carried out during the second half of the year are designed to test long term retrieval skills and will include content from the similar units covered during the first half of the year.</p> <p>Students will also be assessed on their data interpretation and analysis skills throughout the year by completing investigations.</p>
Extending Learning at home	<p>Homework will be set approximately once per week. The homework set incorporates a variety of skills including data analysis, mathematical skills and revision techniques.</p>
Support Available	<p>Students can come to see their teachers to help them with work they have missed due to absence or get help with homework which they find challenging.</p> <p>Knowledge organisers will also be issued to all students for each topic to help them revise for the assessments.</p>
Useful web addresses	<p>BBC bitesize – KS3 Science</p> <p>Seneca Learning</p>