Curriculum Information

Year Group: 9 Subject: Science GCSE course followed: AQA Combined Trilogy/Separate Sciences

Objectives	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. The content delivered across Year 9 is designed to develop scientific knowledge and conceptual understanding through the specific disciplines and is designed to bridge the gaps in knowledge between the KS3 National Curriculum and the KS4 National Curriculum. The focus is to develop depth of knowledge and secure further skills necessary to take the next steps in their Science learning journey.
Part A – Sept - April	Each group will complete the content listed below in a different order. Biology – Disease, Classification, Evolution, Biodiversity and Homeostasis Chemistry – Atomic Structure, Useful materials from the Earth and Environmental Impacts Physics – Forces in action (Hooke's Law, Weight, Pendulums, Density) Within each topic students will also have opportunities to develop practical skills, including presenting, analysis and interpretation of data.
Part B – April – July	Students will begin to study GCSE content. Each unit studied below is suitable for both Combined Science (Trilogy) or Triple Science (AQA). Biology – Bioenergetics Chemistry – Energy Changes Physics - Energy
How is progress measured?	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 first part of the year. A final End of Year Test will be completed in July and used to inform grouping decisions in Year 10. Students will also be assessed on their data interpretation and analysis skills throughout the year by completing investigations.
Extending Learning at home	Homework will be set approximately once per week. The homework set incorporates a variety of skills including data analysis, mathematical skills and revision techniques.
Support Available	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. Knowledge organisers will also be issued to all students for each topic to help them revise for the assessments. GCSE Folder on the Student M drive contains numerous resources for revision and extra support for KS4.
Useful web addresses	BBC bitesize – KS3 Science and GCSE AQA Combined/ Separate Science Seneca Learning (GCSE)