

Curriculum Information

Year Group: 10 Subject: Science GCSE course: AQA Combined Science (Trilogy) & Separate Sciences

Objectives	<p>The KS4 Science Curriculum at Alderman White follows the National Curriculum to provide the foundations for understanding the world through the specific 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 during GCSE is designed to develop scientific knowledge and conceptual understanding through the specific disciplines and is designed to build on the concepts taught during KS3 and prepare students for progression at KS5.</p>
Biology	Cells, Organisation, Infection & Response and Bioenergetics
Chemistry	Atomic structure, Bonding, Quantitative Chemistry, Chemical changes and Energy changes
Physics	Energy, Electricity, Particles and Atomic Structure
How is progress measured?	Students complete <i>Topic Tests</i> at the end of each unit in Biology, Chemistry and Physics. Tests will also include questions on previous topics to measure long term retrieval skills. Additionally students will sit a mock exam in March and a further mock exam in June.
Extending Learning at home	Students will be issued homework from each of their 3 subjects once per fortnight. The tasks set will take a variety of forms e.g. exam questions, revision for tests, reading tasks and target tackling activities. Knowledge organisers will also be issued to all students for each topic to help them revise for the assessments. Students will also be set assignments to complete on the Seneca Learning platform.
Support Available	Thursday night Support sessions run all through the year. Students can purchase revision guides from the Science Department. GCSE Folder on the Student M drive contains numerous resources for revision and extra support for KS4.
Useful web addresses	Seneca Learning BBC Bitesize – AQA GCSE