



Year Group	Year 11					
Subject Intent	Our aim is to develop and sustain students' curiosity about the world, enjoyment of scientific activity and understanding of how natural phenomena can be explained through the disciplines of Biology, Chemistry & Physics. The science curriculum is designed to allow students to fulfil the requirements of the National Curriculum but also builds skills and knowledge towards the new GCSE, in order to lay the foundations for work in Years 9-11. With the changes to linear exams and an increasing emphasis on the application of practical skills and numeracy and quality of written communication, there is more emphasis on a practical skills based course in Year 7-8 which builds knowledge and deeper learning through all key stages to secure subject knowledge, practical, mathematical and scientific literacy skills.					
Subject Implementation	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge	B11 & 12: Hormonal Coordination & Homeostasis C11: Polymers P11: Force and Pressure	B13 & B14 Reproduction & Variation C12: Chemical Analysis P12 & 13 Waves and Properties & EM	B15 & 16 Genetics & Ecology 1 C13 The Earth's Atmosphere P14 & P15 Light & Electromagnetism	B17 & B18 Ecology 2 & Biodiversity C14 & C15 The Earth's Resources & Using our Resources P16 Space	Revision of Content in preparation for public examinations	
Skills	Data interpretation Rearranging equations Analysis of line graphs	Quantitative and Qualitative analysis Using Formulae	Calculating angles Manipulation of statistical data Use of decimals and standard form	Calculating average Analysing trends and patterns in data in tabular and graphical form	Rearranging equations Ratios, fractions and percentages & probability Use of significant figures	



Subject Impact	KS4 students will be assessed using summative assessments tests. These will incorporate a mixture of exam questions that will test the different assessment rubric such as extended questions, mathematical applications and practical skills questions based on the Required Practical's. Students will be expected to answer exam questions using appropriate scientific vocabulary as well as by using mathematical skills (such as rearranging formula, drawing lines of best fit and calculating gradients). Outcomes of each assessment will be added to the department tracker which will be monitored to check the progress of various groups and individual students. Analysis of assessment and mock data will help to shape teaching, planning and learning and help plug misconceptions and knowledge. Topics will be revisited as required as part of ongoing revision of learning. Required practicals will demonstrate students' acquisition of applying theoretical concepts to experimental data					
Assessment	Summative for each topic & Formative once every unit	Summative for each topic & Formative once every unit Mocks PPE1	Summative for each topic & Formative once every unit	Summative for each topic & Formative once every unit Mocks PPE 2	GCSE Public exams	