



Year Group	Year 8					
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	Being a Scientist Organisms	Matter Ecosystems	Chemical Reactions Electromagnets Energy	Genes Forces	Earth Waves	Working Scientifically Science Fair Projects
Skills	Plotting Continuous data, reading scales	Statistical calculations plotting graphs	Simple division	Force diagrams Ratio & probability	Conversion of units Rearranging simple equations	Planning, testing and evaluating
Subject Impact	To develop and expand the use of scientific vocabulary and be able to articulate scientific explanations using topic specific vocabulary. To be able to apply scientific theory to experimental models and to be able to analyse and evaluate data using appropriate mathematical operations through manipulation of raw data and graphs. To be able to write like a scientist, through the development of a hypothesis and method. Students can make links between the topics studied and able to make connections to help explain scientific phenomenon and discoveries.					
Assessment	Summative Assessments & Formative	Summative Assessments & Formative	Summative Assessments & Formative	Summative Assessments & Formative	Summative Assessments & Formative	Summative Assessments & Formative