



Year Group	Year 7					
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 Forces	Matter Organisms Electromagnets	Chemical Reactions Ecosystems	Energy Waves	Earth Genes	Science Fair and Projects
Skills	Plotting line graphs, Force diagrams Rearranging equations	Investigating variables Displaying data using tables and graphs	Statistical analysis of data using mean	Sankey diagrams Using simple equations	Ratios & probability	Planning experiments, identifying variables and fair test
Subject Impact	At the end of the academic year all students will have a final assessment to ascertain their attainment levels for the subject in terms of their understanding, application of concepts and analytical skills. Students will demonstrate secure knowledge of applications of the fundamentals of scientific process and connections to everyday examples. They can confidently use scientific knowledge to plan, hypothesise and collect reliable and repeatable data and manipulate raw data using various mathematical operations. In addition they will be able to evaluate data and make scientific conclusions					



Assessment	Summative Assessments & Formative	Summative Assessments & Formative	Summative Assessments & Formative	Summative Assessments & Formative	Summative Assessments & Formative	Summative Assessments & Formative
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