



Year Group	Year 10					
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	B5: Health and Disease C5: Chemical changes P5: Electricity	B6: Preventing & treating Disease C6: Electrolysis P6: Molecules and Matter	B7: Non Communicable disease C7: Energy Changes P7: Radioactivity	B8: Photosynthesis C8: Rates of reaction & Equilibria P8: Forces in Action	B9: Respiration C9: Crude Oil & fuels P9: Motion	B10: The Nervous System C10: Organic Reactions P10: Forces & Motion
Skills	Rearranging equations/Substituting numerical values	Analysis and interpretation of line graphs, correlation and cause	Plotting graphs using linear scales, extrapolating, information, line of best fit	Rearranging formulae, Plotting line graphs, calculating gradients	Gradients, Rearranging equations	Interpreting motion graphs, calculating area under graph Vector diagrams
Subject Impact	Required Practical's as specified in the GCSE specification and topic based practical activities are carried out to develop students' experimental skills to develop theoretical concepts to experimental models. Students will understand how to modify, adapt experimental models to obtain accurate and repeatable data. A combination of independent learning and flipped learning will afford students the ability to have a deeper understanding of scientific phenomenon. Students will need to demonstrate knowledge and understanding of key words, formulas, calculations and data collection and analysis of graphs and widen their scientific vocabulary and be able to write and think like a scientist					
Assessment	Summative tests after each unit	Summative tests after each unit End of Term assessments	Summative tests after each unit	Summative tests after each unit End of term assessments	Summative tests after each unit	Summative tests after each unit End of term assessments

