KS3 Curriculum Plan Science: Please note that in order to resource the order in which units are taught within a given term may vary between classes.

Year 7 – Activate 1 Each topic will have an end of unit test and also each Science has an end of unit Assessment.		
Autumn Term	**Topic** **Safety in the Lab** **Baseline Assessment** **Working Scientifically** ***Physics 1:***	**Brief description** 1. Forces 2. Sound 3. Light **4.** Space
Spring Term	**Topic** ***Biology 1:***	**Brief description** 1. Cells 2. Body Systems 3. Reproduction
Summer Term	**Topic** **Chemistry 1:**	**Brief description** 1. Particles and their behaviour 2. Atoms and Elements 3. Reactions 4. Acids and Alkalis
Year 8 - Activate 2 Each topic will have an end of unit test and also each Science has an end of unit Assessment.		
Autumn Term	**Topic** **Chemistry 2:**	**Brief description** 1. Periodic table 2. Separation Techniques 3. Metals and Acids 4. The Earth
Spring Term	**Topic** **Physics 2:**	**Brief description** 1. Electricity and Magnetism 2. Energy 3. Motion and Pressure
Summer Term	**Topic** **Biology 2:**	**Brief description** 1. Health and lifestyle 2. Ecosystem Processes **3.** Adaptation and inheritance
Year 9 – AQA GCSE *Trilogy* Pathway		
Autumn Term	**Topic** **AQA Biomimcry**	**Brief description** Biomimicry is an exciting area of research that extends across scientific disciplines using inspiration from nature to help scientists solve contemporary problems. The course is to bridge the gap between what students will have studied at KS3 (e.g. energy transfer, chemical reactions and photosynthesis) and areas studied at GCSE (e.g. nanotechnology, nerve impulses and forces). This is the End of Key stage 3 studies in science

	AQA Transition Assessment	This is an AQA diagnostic assessment to ensure that we recover any knowledge or application gaps from key stage 2 and 3. Following the exam a series of individualised study sessions will ensure that the student is GCSE ready.
Spring Term	**Topic** ***Biology:*** **Unit 1.Cells and organisation** ***Chemistry:*** **Unit 1.Atoms, bonding and moles**	**Brief description** 4 Chapters in total for this unit covering: Cell structure and transport, cell division, levels of organisation, digestive system and circulatory system**.** Again 4 chapters within this unit covering: Equations, separating mixtures, fractional distillation, chromatography, atoms/ions and Isotopes, and all aspects of the periodic table.
Summer Term	**Topic** **Physics:** **Unit 1.Energy and Energy Resources** **Skills : Maths/Numeracy for Science** **Skills: Practical for Examination**	**Brief description** The 3 chapters for P1 are conservation and dissipation of energy, Energy Transfer by Heating and Energy Resources. 5 sections of Maths essential to science: Computation, Data handling, Algebra, Graphs , Geometry and Trigonometry. A review of how the practical skills are assessed in the new GCSE and to ensure that the 'Required practicals' are recorded.
Please note that this is for the science classes which are taking the New GCSE science Pathway 9-1 using the AQA Science Trilogy course. Students are awarded 2 GCSEs for the course. There is no longer coursework/controlled assessments, however a series of required practicals is examined within the exam to the value of 15% of the GCSE marks.		