Year 10	Autumn Term	Spring Term	Summer Term	
Year 10 Topics Studied in AQA Triology Combined Science Skills and Key Knowledge Taught	Autumn Term Biology: Bioenergetics Chemistry: Bonding and Quantitative Chemistry Physics: Particle model and Atomic structure -Photosynthesis reaction -Aerobic and anaerobic respiration -Atomic structure, ionic bonding and properties -Covalent and Metallic bonding and properties -Allotropes of carbon -Conservation of mass/apparent mass change, mass calculations -States and properties and changing state -Mass conservation -Density equation, density RP	Biology: Organisation (the body) Chemistry: Chemical Changes Physics: Forces -Digestive system (including food tests) -Enzyme action -Heart, blood, blood vessels, heart disease, lifestyle and non-communicable disease including cancer -Plant organs and tissues, plant and active transport -Atomic structure, ion formation -Metal oxides, reactivity series, displacement/metal extraction, OILRIG and ionic equations, making salts -Scalar & Vector, Weight calculations, Elasticity, Forces in motion including speed and acceleration,	Biology: Ecology Chemistry: Chemistry of the Atmosphere -Classification and communities -Biotic/abiotic factors -Distribution of organisms, adaptations, producers, consumers -Decomposers, cycling materials, waste management, land use and deforestation, global warming and maintaining biodiversity -Composition of the atmosphere, cycling of Carbon, Greenhouse effect and global warming,	
	-States and properties and changing state -Mass conservation	extraction, OILRIG and ionic equations, making salts -Scalar & Vector, Weight calculations, Elasticity,	-Composition of the atmosphere, cycling of	
Links for Support/	-Use of types of radiation, nuclear equations, half-life and nuclear fusion Use of student resources located within WHS Share		a the class teacher via Supergu	
Help at Home	Use of additional homework booklets, therapy work packs, exam papers and/or additional resources from the class teacher via Synergy Use of online platforms such as Seneca for podcasts Vatching of documentaries linked to scientific issues studied Homemade experiments at home Youtube videos to watch practical demonstrations and additional teaching Teacher discussions following assessments and/or reports Varticipation in enrichment opportunities and/or extra-curricular activities			

Year 11	Autumn Term	Spring Term	Summer Term	
Topics	Biology: Homeostasis and Response	Biology: Inheritance, Variation and Evolution	Class-based Variation in	
Studied in	Chemistry: Chemistry of the Atmosphere &	Chemistry: Organic Chemistry	Revision Topics	
AQA	Using resources	Physics: Forces and Motion and Magnetism/Electromagnetism	Students will be directed to	
Trilogy	Physics: Waves		revision based on student needs	
Combined			from PPE performance/teacher	
Science			assessments. GCSE Exams	
			Undertaken	
Skills and	-Homeostasis and nervous system comparison	-Sexual and asexual reproduction	-Accumulation of all content	
Key	-Reaction time, reflex actions and reflex arc	-Meiosis	and skills	
Knowledge	-Endocrine system: blood glucose	-Sex determination		
Taught	-Kidney function and failure	-Protein synthesis		
•	-Reproductive hormones, contraception,	-Genetic inheritance and genetic disorders, genetic engineering		
	hormones to treat infertility	-Variation, selective breeding, evidence for evolution and extinction		
	- Composition of the atmosphere, cycling of	-Crude oil, fractional distillation, properties of hydrocarbons and alkanes.		
	Carbon, Greenhouse effect and global	Cracking and alkenes		
	warming, atmospheric pollutants.	-Scalar and vector and interaction pairs		
	-Resources on our planet and sustainability.	-W=mg, Resultant forces, Freebody diagrams		
	Potable water and wastewater treatment, Life	-Distance and displacement, Speed and velocity, graphs, momentum,		
	cycle assessments and recycling.	stopping distances, Newton's Laws		
	-Wave types and properties. Calculating wave	-Magnetic poles and permanent/induced		
	speed and the required practical. EM waves	-Magnetic fields including RH rule, review electricity (current, resistance,		
	and their properties.	PD basics)		
		-Electromagnets, motor effect and Fleming's LH rule, F=BII, electric motors		
Links for	Use of student resources located within WHS SharePoint for students			
Support/	Use of additional homework booklets, therapy work packs, exam papers and/or additional resources from the class teacher via Synergy			
Help at	Use of online platforms such as Seneca for podcasts			
Home	Watching of documentaries linked to scientific issues studied			
	Homemade experiments at home			
	Youtube videos to watch practical demonstrations and additional teaching			
	Teacher discussions following assessments and/or reports			
	Participation in enrichment opportunities and/or extra-curricular activities			