**Year 9 – GCSE SCIENCE Programme of Study** 

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Term	Autumn		Spring		Summer	
Teacher 1	GCSE Energy		GCSE Particle Model of Matter		GCSE Bonding, Structure & the Properties of Matter	
	Energy - stores, transfers, conservation, dissipation, efficiency; specific heat capacity; energy resources & energy security Required Practical (RP) - Specific Heat Capacity RP - Thermal Insulation (T = Triple only)		States of matter - behaviour & arrangement of particles; internal energy; specific latent heat; specific heat capacity; density; gas laws RP - Density		Bonding - ionic, covalent & metallic; states of matter; properties of compounds, metals & alloys; polymers; carbon; nanoparticles (T)	
Assessment	Half-term 1: Energy Mid-topic Test	Half-term 2: Energy End of Unit Test	Half-term 1: Particle Model Mid-Topic Test	Half-term 2: Particle Model End of Unit Test	Half-term 1: Structure & Bonding Mid-Topic Test	
Teacher 2	GCSE Atomic Structure & Periodic Table		GCSE Cell Biology		GCSE Organisation	
	States of matter; atoms, elements & compounds; balancing equations; separation techniques; models of the atom; atomic structure; isotopes; Periodic Table (groups 1, 7 & 0); metals & nonmetals; ions; transition metals; catalysis		Structural differences between different types of cell and how this relates to function; contributions of microscopy to understanding of cells; cell division by mitosis; transport of substances in/out of cells RP - Microscopy RP - Microbiology (T) RP - Osmosis		Role of enzymes in the human digestive system; adaptations of the respiratory system for gas exchange; blood components and structures of the circulatory system; effect of lifestyle choices on health & disease; role of plant tissues and organs in photosynthesis RP - Enzymes RP - Food tests	
Assessment	Half-term 1: Atomic Structure Mid-Topic Test	Half-term 2: Atomic Structure End of Unit Test	Half-term 1: Cell Biology Mid-Topic Test	Half-term 2: Cell Biology End of Unit Test	Half-term 1: Organisation Mid-Topic Test	End of Year 9 Exam

H - Higher tier Only

RP - Required Practical

T - Triple Content Only

Chemistry

**Physics** 

Biology