Science

	HALF TERM 1	HALF TERM 2	HALF TERM 3	HALF TERM 4	HALF TERM 5	HALF TERM 6
7	Working scientifically bridging unit Interdependence Universe	Particle Model Forces	Separation techniques	Cells	Reproduction	Acids and Alkalis
8	Respiration Energy Stores	Earth Structure	Digestive System	Chemical Reactions Electricity	Photosynthesis and Plant Structure	Magnetism
9	Periodic Table Health, Body and Disease	Motion and Speed	Genetics and Variation	Natural Selection and Evolution Waves	Springs	Heating and Cooling Reactivity of Metals
10	Biology: Cell structure, Transport in Cells Chemistry: Atomic structure and the periodic table Physics: Energy	Biology: Communicable diseases, non-communicable diseases Chemistry: Chemical analysis, Bonding, Structure and the properties of matter Physics: Energy	Biology: Plant structure Chemistry: Reactivity of metals Physics: Particle model of matter	Biology: Animals, Tissues, Organs and Organ systems Chemistry: Quantitative Chemistry Physics: Atomic structure	Biology: Adaptation for survival, Organisation of ecosystems Chemistry: Acids and Alkalis Physics: Electricity	Biology: Respiration Chemistry: Acids and Alkalis Physics: Electricity
11	Biology: Human interaction of Ecosystems, Cell division Chemistry: Electrolysis, Energy changes Physics: Cohort 2027: Electricity Cohorts 2028 onwards: Forces A	Biology: Reproduction, Variation Chemistry: Rates of reaction and Equilibrium Physics: Cohort 2027: Electricity Cohorts 2028 onwards: Waves	Biology: Homeostasis, Chemistry: Organic chemistry Physics: Cohort 2027: Waves Cohorts 2028 onwards: Waves	Biology: Human nervous system, Hormonal coordination Chemistry: Chemistry of the atmosphere Physics: Cohort 2027: Waves Cohorts 2028 onwards: Magnetism	Biology: Evolution and classification Chemistry: Using Resources Physics: Cohort 2027: Magnetism Cohorts 2028 onwards: Magnetism	Biology: Revision & Exam preparation Chemistry: Revision & Exam preparation Physics: Revision & Exam preparation

Triple Science						
10	Biology: Cell structure, Transport in Cells Chemistry: Atomic structure and the periodic table, Physics: Energy	Biology: Communicable diseases, Monoclonal antibodies, non-communicable diseases Chemistry: Chemical analysis Physics: Particle model of matter	Biology: Plant structure Plant hormones, Animals, Tissues, Organs and Organ systems Chemistry: Bonding, Structure and the properties of matter Physics: Atomic structure	Biology: Respiration, Adaptation for survival Chemistry: Reactivity of metals Physics: Electricity	Biology: Organisation of ecosystems Chemistry: Quantitative chemistry Physics: Electricity	Biology: Human interaction on ecosystems Chemistry: Acids and Alkalis Physics: Forces A
11	Biology: Cell division, Reproduction, Variation Chemistry: Electrolysis, Energy changes Physics: Forces B	Biology: Evolution and Classification, Food production Chemistry: Rates of Reactions, Equilibrium Physics: Waves	Biology: Homeostasis Human nervous system Chemistry: Organic chemistry, Chemistry of the atmosphere Physics: Magnetism	Biology: Hormonal coordination Chemistry: Further organic chemistry, Using resources Physics: Space	Biology: Revision & Exam preparation Chemistry: Revision & Exam preparation Physics: Revision & Exam preparation	Biology: Revision & Exam preparation Chemistry: Revision & Exam preparation Physics: Revision & Exam preparation

Scope:
Our science curriculum is built around key knowledge, enabling students to understand and explain the natural world through a scientific lens. It provides a broad and balanced foundation across biology, chemistry and physics, equipping all students with the knowledge and skills to think critically, ask questions and make sense of the world around them. Through our KS3 curriculum and progression to KS4, we aim for students to develop secure scientific understanding, confidently apply their knowledge, communicate using scientific language, and leave with the opportunity to study science beyond GCSE.

Rigour:
To ensure our curriculum is rigorous and coherent the science curriculum is underpinned by an understanding of fundamental concepts and an understanding of scientific skills. These are taught explicitly and knowledge is accompanied by application of

understanding which is linked to previous learning. The curriculum is academically ambitious, and students are challenged to develop scientific understanding through practical work, mathematical application, data analysis and extended explanations using accurate scientific vocabulary. Retrieval practice, regular assessment and deliberate revisiting of key concepts ensure knowledge is retained and misconceptions are addressed.

Sequencing:
The curriculum has been carefully sequenced so that learning builds progressively over time. Students begin with foundational concepts such as cells, particle theory and forces, before applying this knowledge to more complex topics including genetics, evolution, energy transfers and chemical reactions. Concepts are revisited across year groups and disciplines, allowing students to strengthen prior knowledge and make meaningful connections. This sequencing provides a clear pathway into the AQA GCSE curriculum, reducing cognitive overload and supporting long-term retention.

Coherence:
The curriculum is underpinned by fundamental scientific concepts that are revisited throughout KS3 and developed in greater depth at KS4. These include cells and organisation, particles, atomic structure, energy, forces, matter, inheritance, chemical reactions and Earth systems. Alongside these concepts, students continually develop their working scientifically skills, enabling them to apply knowledge, analyse evidence and communicate scientific ideas with increasing sophistication.