CURRICULUM OVERVIEW 2022 – 2023: SCIENCE FACULTY																																	
W K	1	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Autumn										16	16 17 18 19 20 21 22 23 24 25 26 Spring											27 28 29 30 31 32 33 34 35 36 37 38 39 40 Summer									
Y E A R 7	FORCES 1: Speed (6), Gravity (6) MATTER 1: Particles (5), Separating solutions (7) ORGANISMS 1: Movement (5), Cells (8)										El RI EC (7	ELECTROMAGNETS 1: Current, Voltage & Resistance (10) REACTIONS 1: Metals & Non-Metals (4), Acids & Alkalis (7) ECOSYSTEMS 1: Interdependence (4), Plant Reproduction (7)										)	ENERGY 1: Energy Costs (5), Energy Transfers (7), WAVES 1: Sound (5) EARTH 1: Earth & The Universe (9) GENES 1: Variation (4), Human Reproduction (7)										
Y E A R 8	FORCES 2: Contact Forces (5), Pressure (6) MATTER 2: Periodic Table (5), Elements (6) ORGANISMS 2: Breathing (4), Digestion (7)									EL RI EC	ELECTROMAGNETS 2: Magnets & Electromagnets (7) REACTIONS 2: Chemical Energy (4), Types of Reaction (6) ECOSYSTEMS 2: Respiration (5), Photosynthesis (8)											ENERGY 2: Work, Heat & Cooling (9), WAVES 1: Light (6) EARTH 2: Earth, Climate & Resources (9) GENES 2: Evolution (4), Inheritance (6)											
Y E A R 9	W/ GC GC Mi	NAVES 2: Wave Effects & Properties (6) GCSE Space (5) GCSE Periodic Table (11), GCSE Energy (3) GCSE Cells Structure, Function & Microscopy (5), GCSE Cell Cycle & Mitosis (5), GCSE Movement in & out of Cells (4)								G( G( (7	GCSE Energy Stores & Transfers (7) GCSE Energy (5), GCSE Metal Reactivity (8) GCSE Movement in & out of Cells (4), GCSE Bioenergetics (7)										GCSE Electricity (8), Revision & End of Year Test GCSE Using Resources (10), Revision & End of Year Test GCSE Enzymes & Digestion (6), GCSE Health & Lifestyle (6), Revision & End of Year Test												
Y E A R 1 0	GC (8) GC GC	<ul> <li>GCSE Mains Electricity &amp; Assessment (6), GCSE Particle Model of Matter (8)</li> <li>GCSE Bonding (12), GCSE Making Salts (8), Quantitative (3)</li> <li>GCSE The Heart &amp; Circulatory System (5), GCSE The Nervous System (5), GCSE The Endocrine System (5), GCSE The Immune System (5)</li> </ul>									G( G( (7	GCSE: Atomic Structure (9), GCSE Forces & Pressure (9) GCSE Quantitative (11), GCSE Electrolysis (7) GCSE The Immune System (2) GCSE Plants & their Systems (7), GCSE DNA & Proteins (3), GCSE Inheritance (6)										5	GCSE Forces & Pressure (4), GCSE Speed & Motion (6), Revision & End of Year Test GCSE Electrolysis (2), GCSE Chemical Analysis (10), Revision & End of Year Test GCSE Reproduction (6), GCSE Ecology (7), Revision & End of Year Test										
Y E A R 1 1	GC Ele GC GC	GCSE Stopping (6), GCSE Magnetism (5), GCSE Wave Character (4), GCSE Electromagnetic Waves (5) GCSE Rate & Equilibrium (13), GCSE Organic Chemistry (7) GCSE Environmental Science (6), GCSE Evolution (8), GCSE Revision								G G R G	GCSE Revision GCSE Organic Chemistry (2), GCSE Atmosphere (8), GCSE Revision GCSE Revision											GCSE Revision & Exams GCSE Revision & Exams GCSE Revision & Exams											

## CURRICULUM OVERVIEW 2022 – 2023: SCIENCE FACULTY

W K	1 2 3 4 5	6	7 8 9 10 11 12 1	3 14 15	<b>16 17 18</b> 1	19 20 2	22 23 24 25	26	27 28 29 30 3	1 32	33 34 3	35 36 37 3	8 39 40				
			Autumn			Spi	ring		Summer								
Y E A R 1 2	Chemistry: Foundations in Chemistry Biology: Biological Molecules (2) / Cells (1) Physics: Particles and Radiation Forensic investigation: Unit 1: Principles and Applications of Science I	Asse ssm ent Win dow	Chemistry: The Periodic Table Biology: Biological Molecules / Cells Physics: Mechanics & Materials / Collisions of Electrons with Atoms Forensic investigation: Unit 1: Principles and Applications of Science I	Assessm ent Window	Chemistry: Physical Chemistry Biology: Organisms exchange substances with their environment (3) /Genetic information, variation & relationships between organisms (4) Physics: Waves/ Refraction/ diffraction & interference. Forensic investigation: Unit 3 science investigation skills	Assessm ent Window	Chemistry: Basic Concepts and Hydrocarbons; Alcohols, Halokanes and Analysis Biology: Organisms exchange substances with their environment/Genetic information, variation & relationships between organisms Physics: Electricity & Current Electricity /Potential Divider Forensic investigation: Unit 3 science investigation skills	As se ss m en t Wi nd ow	Chemistry: :Practical Revision and PAG catch up Biology: Finish Topic 3 / 4 Exchange & Variation. Physics: Further mechanics: Circular Motion / Revision Forensic investigation: Unit 3 science investigation skills + revision	Asse ssm ent Win dow	Chemistry: Revision Biology: Revision Physics: Revision Forensic investigatio n: Unit 2 Practical scientific procedures and techniques Aim A	Chemistry: Begin Unit 5 Biology: PAG Review & A2 prep. Physics: Further Mechanics Simple Harmonic Motion Forensic investigation: Unit 2 Practical scientific procedures and techniques Aim B	Assessm ent Window				
Y E A R 1 3	Chemistry: Physical Chemistry and Transition Elements Biology: Energy transfers in and between organisms. (5) Physics: Further Mechanics / Thermal Physics Forensic investigation: Unit 2 Practical scientific procedures and techniques Aim C&D Unit 4 Forensic investigation procedures in practice	Asse ssm ent Win dow	Chemistry: Organic Chemistry and Analysis Biology: Genetics, populations, evolution & ecosystems. (7) Physics: Nuclear Physics/ Newton's Law / Gravitational Field Strength. Electric Field Strength Forensic investigation: Unit 4 Forensic investigation procedures in practice. Unit 11 Forensic traffic collision investigation	Assessm ent Window	Chemistry: Finish off previous modules. Review of PAGS Biology: Organisms respond to changes in their internal and external environments(6) Physics: Capacitance / Magnetic Fields Forensic investigation: Unit 11 Forensic traffic collision investigation Unit 13 Forensic genetics	Assessm ent Window	Chemistry: Revision Biology: The control of gene expression. (8) Physics: Option topic: Astrophysics Forensic investigation: Unit 13 Forensic genetics.	As se ss m en t Wi nd ow	A-Level Revision All subjects Forensic investigation: Unit 13 Forensic genetics.	Asse ssm ent Win dow	A Level Exam	s start from week 31					

