Year 9 Sciences Curriculum Map

Subject/Term	erm Term 1 Knowledge Term 2 Knowledge Term 3 Knowledge		3 Knowledge	ge Term 4 Knowledge		Term 5 Knowledge		Term 6 Knowledge				
Science Rotation Skills: Scientific thinking; Experimental skills; Analysis and evaluation; Scientific vocabulary	Cells to systems; The Earth and its Atmosphere; Thermal Physics (Energy 1)					Organisation 1; Atomic Structure and the Periodic Table; Sound as Waves						
Geography 5 units covered Skills: Knowledge; Understanding; Enquiry	G1 Earth's Resources – New Pressures; Solutions	, I	G2 Restless Planet - Processes; Effects; Case Studies		G4 Ecosyste Characterist Challenges			G5 Middle East – Physical; Human; World role				
Maths 9 units covered Skills: Number Place Value & Four Operations; Number FDP & Ratio; Measurement & Units; Geometry, Angles & Shapes; Statistics; Problem Solving & Investigations	Number 1:		Number 2: Developing all work on percentages Growth and decay Compound measures Real life graphs SDT calculations Algebra 2: Developing skills with algebraic equations Solving quadratic equations Developing skills with simultaneous equations Developing skills with rearranging formulae Geometry & Data 2: Developing skills with area and volume Developing skills with surface area Developing skills with trigonometry			Number 3: Developing recurring decimals skills Developing ratio skills Direct proportion from a table Direct & Inverse proportion — algebraically Start GCSE Scheme of Work — Mid-May Geometry & Data: Averages Collecting Data & Sampling methods Bar charts, pictograms and line graphs Pie charts Scatter graphs Cumulative frequency diagrams Box and whisker diagrams Histograms Number: Rounding and Estimating Properties of Number						

Computing 6 units covered Skills: Computational Thinking; Problem Solving; Analysis, Evaluation and Implementation; Technical Vocabulary	Data Modelling and Visualisation Students will learn about how data can be represented effectively and how real-world situations can be modelled allowing for interpretation of 'what- if' scenarios.	how relation databases efficient was one of the street of	ng data and onal provide an ay of doing ts will gain an on of different ata and how has should be o make data d easier to	Students extend th how infor stored, st compone to evalua a range o scenarios	nts and be able te suitability for	Online applicated development Students will coding, database presentation screate a simple interactive application and the students of the stu	combine ases and web skills to e web-based	Students a range of scenario these im individual society a	als, wider and ogical prog	nine v	Digital Entrepreneurialism Students will learn about how digital systems are integrated in the real world and the opportunities this provides in a range of different industries.
PE 4 units covered Skills include: Problem solving; Accountability; Commitment; Teamwork; Goal setting	Effective Teams Basketball (PE1) Netball (PE2) Football (PE3) Rounders (PE1) Tennis (PE2) Cricket (PE3)		Sport Educa Sport Educa Sport Educa Rugby (PE1) HRF (PE2)	Power of Positivity Sport Education (PE1) Sport Education (PE2) Sport Education (PE3) Rugby (PE1) HRF (PE2) Trampolining (PE3)		Attitude & Behaviours of a Leader Tchoukball (PE1) Basketball (PE2) Rugby (PE3) Trampolining (PE1) Rugby (PE2) HRF (PE3)		eader	HRF (PE1) Trampolining (PE2) Tchoukball (PE3) Athletics (PE1) Athletics (PE2) Athletics (PE3)		
DTA Rotation of 5 units Skills: Investigation; Analyse; Generate Ideas; Make; Evaluate	DT – Multi-Materials - Des context, working to a desig brief, client, user needs an purpose. Polymers and forming.	design tools, research ex iterative processe		oration, and	DT – Textiles - C embroidery. Tal of user needs, fi and purpose wh	king account unctionality	elements, proportions, composition and portraiture.		foods dietar	bood & Nutrition - Where boods come from, specific lietary requirements and diet cross life.	