

Year 9 Sciences Curriculum Map

Subject/Term	Term 1 Knowledge	Term 2 Knowledge	Term 3 Knowledge	Term 4 Knowledge	Term 5 Knowledge	Term 6 Knowledge
Science Rotation <i>Skills: Scientific thinking; Experimental skills; Analysis and evaluation; Scientific vocabulary</i>	Cells to systems; The Earth and its Atmosphere; Thermal Physics (Energy 1)			Photosynthesis and Biomass; Atomic Structure and the Periodic Table; Topic 1: Energy resources and topic 2: Sound		
Geography 5 units covered <i>Skills: Knowledge; Understanding; Enquiry</i>	G1 Earth's Resources – Needs; Pressures; Solutions	G2 Restless Planet - Processes; Effects; Case Studies	G3 Globalisation – Employment; UK; The World	G4 Ecosystems – Characteristics; Biomes; Challenges	G5 Middle East – Physical; Human; World role	
Maths 9 units covered <i>Skills: Number Place Value & Four Operations; Number FDP & Ratio; Measurement & Units; Geometry, Angles & Shapes; Statistics; Problem Solving & Investigations</i>	Number 1: <ul style="list-style-type: none"> Calculating with bounds Fractional & negative laws of indices Standard form calculations Calculating with surds Rationalising the denominator Algebra 1: <ul style="list-style-type: none"> Developing algebraic skills Difference of two squares Algebraic fractions Nth term Graphical inequalities Geometry & Data 1: <ul style="list-style-type: none"> Vector notation and calculations Translations Reflections Rotations Enlargement 		Number 2: <ul style="list-style-type: none"> Developing all work on percentages Growth and decay Compound measures Real life graphs SDT calculations Algebra 2: <ul style="list-style-type: none"> Developing skills with algebraic equations Solving quadratic equations Developing skills with simultaneous equations Developing skills with rearranging formulae Geometry & Data 2: <ul style="list-style-type: none"> Developing skills with area and volume Developing skills with surface area Developing skills with trigonometry 		Number 3: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Averages Collecting Data & Sampling methods Bar charts, pictograms and line graphs Pie charts Scatter graphs Cumulative frequency diagrams Box and whisker diagrams Histograms Number: <ul style="list-style-type: none"> Rounding and Estimating Properties of Number 	

<p>PE 9 units covered <i>Skills include:</i> <i>Problem solving;</i> <i>Accountability;</i> <i>Commitment;</i> <i>Teamwork; Goal setting</i></p>	<p>Problem solving</p> <p>Basketball Netball Football Badminton Hockey</p>	<p>Spreading positivity</p> <p>HRF Football Basketball Netball</p>	<p>Commitment</p> <p>Rugby HRF Hockey Football</p>	<p>Courage</p> <p>Hockey Rugby HRF Football</p>	<p>Attitude and behaviour</p> <p>HRF Rugby Handball Trampolining Table Tennis</p>	<p>Respect</p> <p>Handball Trampolining Dance Badminton</p>	<p>Rising to the challenge</p> <p>Table tennis Handball Hockey Badminton Football Dance</p>	<p>Winning and losing</p> <p>Athletics</p>	<p>Effective communication</p> <p>Softball Tennis Rounders Cricket</p>	
<p>DTA Rotation of 5 units <i>Skills:</i> <i>Investigation;</i> <i>Analyse;</i> <i>Generate Ideas;</i> <i>Make; Evaluate</i></p>	<p>DT – Multi-Materials - Design context, working to a design brief, client, user needs and purpose. Polymers and forming.</p>		<p>DT – Graphic Products - CAD tools, research exploration, iterative processes and emerging technologies. Ergonomics and anthropometrics.</p>		<p>DT – Textiles - Overlock and embroidery. Taking account of user needs, functionality and purpose when designing.</p>		<p>Art & Design - Formal elements, proportions, composition and portraiture.</p>		<p>Food & Nutrition - Where foods come from, specific dietary requirements and diet across life.</p>	