

Year 8 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 of 5 <i>Skills: Scientific thinking; Experimental skills; Analysis and evaluation; Scientific vocabulary</i>	Digestion; The periodic table; Light	Breathing and respiration; Elements; Magnets and electromagnets	Evolution; Types of chemical reaction; Levers and Pressure	Inheritance; Energy change in reactions; Sound	Projects	
Geography 5 units covered <i>Skills: Knowledge; Understanding; Enquiry</i>	G1 Population - Growth; Impacts; The Future	G2 Coasts – Processes; Landforms; Management	G3 International Development – Indicators; Case Studies; Causes	G4 Weather and Climate Change – Causes; Measuring; Characteristics	G5 Asia and China – Countries; Physical; Human	
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"> Rounding to significant figures Bounds of errors Laws of indices Standard form Simplifying surds Algebra 1: <ul style="list-style-type: none"> Developing algebraic skills Working with terms and expressions Expanding double brackets Expanding triple brackets Factorising quadratic expressions Geometry & Data 1: <ul style="list-style-type: none"> Area and perimeter of compound shapes Area and circumference of circles Volume of prisms, pyramids & spheres Surface area of prisms Pythagoras 		Number 2: <ul style="list-style-type: none"> LCM and HCF using prime factors Use of venn diagrams Developing percentages skills Simple and compound interest Reverse percentages Algebra 2: <ul style="list-style-type: none"> Developing skills with algebraic equations Solving equations with fractions Forming and solving equations Rearranging formulae Simultaneous equations Geometry & Data 2: <ul style="list-style-type: none"> Probability scales and language Probability of a single event Listing outcomes Expectation Tree diagrams and venn diagrams 		Number 3: <ul style="list-style-type: none"> Recurring decimal conversions Developing ratio skills Exchange rate calculations Proportion, including graphically Direct proportion, including algebraically Algebra 3: <ul style="list-style-type: none"> Straight lines in four quadrants Plotting linear graphs Gradient and y-intercept Equation of a straight line Plotting quadratic graphs Geometry & Data 3: <ul style="list-style-type: none"> Developing angles skills Bearings using angle facts Angles in polygons, interior and exterior Right-angled trigonometry Similarity and congruence 	

<p>PE 9 units covered <i>Skills include:</i> <i>Empathy;</i> <i>Responsibility;</i> <i>Adaptability;</i> <i>Resilience</i></p>	<p>Communication Basketball Netball Football Handball</p>	<p>Resilience Football Hockey Basketball HRF Handball</p>	<p>Embracing failure Rugby HRF Football Hockey</p>	<p>Leadership Rugby Hockey HRF Basketball</p>	<p>Behaviour Hockey Football Table tennis Trampoline Rugby</p>	<p>Responsibility Handball Table tennis Trampoline HRF Rugby</p>	<p>Coping with pressure Table tennis Trampoline Hockey Netball Handball Badminton</p>	<p>Asking questions Athletics</p>	<p>Conflict resolution Rounders Softball Cricket Tennis</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 - Manufacturing processes and production, technical drawings and quality control.</p>	<p>DT – Graphic Products - Ergonomics, anthropometrics and emerging technologies. Design decisions and purpose/user needs</p>	<p>DT – Textiles - Developing sewing and machine skills. Printing processes and materials analysis. User needs. Revision of H&S.</p>	<p>Art & Design - Formal elements, colour, pattern and form. Annotated sketches and analysis</p>	<p>Food & Nutrition - Macronutrients, micronutrients, nutritional analysis.</p>				