Year 7 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 *Skills: Scientific thinking; Experimental skills; Analysis and evaluation; Scientific vocabulary*	Cells; Particle model; Forces	Human reproduction; Separating mixtures; Energy costs	Variation; Acids and alkalis; Electricity	Interdependence; Metals & non-metals; Friction & energy stores	Rocks; Space	
Geography 5 units covered *Skills: Knowledge; Understanding; Enquiry*	G1 It's your planet - Origins; Life; Human	G2 Maps and The UK – Skills; Physical; Human	G3 Glaciers – Processes; Landscapes; Landforms	G4 Africa – Countries; Physical; Human	G5 Rivers and Floods – Processes; Landscapes; Landforms	
Maths 9 units covered *Skills: Number Place Value & Four Operations; Number FDP & Ratio; Measurement & Units; Geometry, Angles & Shapes; Statistics; Problem Solving & Investigations*	Number 1: • Ordering integers and decimals • Working with negative numbers • Four operations, including decimals • Rounding to decimal places • Working with fractions Algebra 1: • Algebraic notation • Collecting like terms • Multiply & divide expressions • Substitution • Expanding brackets Geometry & Data 1: • Properties of 2D and 3D shapes • Perimeter of shapes • Area of shapes (including circles) • Volume of prisms • Pythagoras introduction	Number 2: • Properties of Number • Products of Prime Numbers • Percentage of an amount • Percentage increase and decrease • Writing numbers as percentages Algebra 2: • Writing expressions • Factorising • Solve equations (two step and brackets) • Solve equations (unknown on both sides) • Forming and solving equations Geometry & Data 2: • Two-way tables • Pie charts • Scatter graphs • Averages and range • Mean and mode from a table	Number 3: • Fraction, decimal & percentage conversion • Ordering FDP • Ratio notation • Sharing in a given ratio • Proportion and unitary method Algebra 3: • Working with sequences • Finding nth term for linear sequences • Inequality notation • Solve inequalities (including negatives) • Solve inequalities (unknown on both sides) Geometry & Data 3: • Angle terminology • Scale drawings and constructions • Angles in parallel lines • Angles in polygons • Bearings		

PE **5 units covered** *Skills include: Teamwork; Communication; Listening; Motivation; Determination; Confidence*	Social Belonging Team Challenges Team Sports Fitness Challenge Orienteering	Motivation Rugby Trampolining (PE2) Gymnastics (PE3) Rounders (PE1) Tennis (PE2) Softball (PE3)	Motor Competence Basketball (PE1) Gymnastics (PE2) Handball (PE3) Athletics (PE1) Athletics (PE2) Athletics (PE3)	The Value of PE Trampolining (PE1) HRF (PE2) Rugby (PE3) Tennis (PE1) Rounders (PE2) Cricket (PE3)	Confidence Football (PE1) Netball (PE2) Football (PE3) Gymnastics (PE1) Football (PE2) Trampolining (PE3)
DTA **Rotation of 5 units** *Skills: Investigation; Analyse; Generate Ideas; Make; Evaluate*	DT – Multi-Materials - Materials and working properties, iterative design (design decisions).	DT – Graphic Products - Material classifications and working properties, papers and boards, CAD and iterative design.	DT – Textiles - Materials and working properties and iterative design. User needs and functionality. Health & Safety.	Art & Design - Formal elements and artist analysis.	Food & Nutrition - Health & Safety, introduction to the food room. Eatwell guide, 8 healthy eating tips, nutrients and food groups.