Year 7 Sciences Curriculum Map

Subject/Term	Term 1 Knowledge	Term 2 Knowledge	Term	3 Knowledge	Term 4 K	nowledge	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; costs	; Energy	Variation; Acids a Electricity	nd alkalis;	Interdepende non-metals; I stores	ence; Metals & Friction & energy	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 an Working with negative Four operations, incle Rounding to decimal Working with fraction Algebra 1: Algebraic notation Collecting like terms Multiply & divide exp Substitution Expanding brackets Geometry & Data 1: Properties of 2D and Perimeter of shapes Area of shapes (inclu Volume of prisms Pythagoras introduct	d decimals ve numbers uding decimals places ns oressions 3D shapes ding circles) ion	Number 2 • F • F • F • N Algebra 2 • N • F • S • S • S • S • S • S • S • S	2: Properties of Numb Products of Prime N Percentage of an ar Percentage increas Writing numbers as : Writing expressions Factorising Solve equations (tw Solve equati	ber Numbers mount e and decrease s percentages s vo step and bra nknown on bot g equations	e ackets) h sides)	Number 3: Fraction conversi Ordering Ratio no Sharing Proporti Algebra 3: Working Finding Inequali Solve ine sides) Geometry & Data Angle te Scale dra Angles in Angles in Bearings	, decim ion g FDP otation in a give ion and g with se nth terr ty notation equaliti equaliti equaliti equaliti a 3: crminolo awings n parall n polyge	al & percentage en ratio unitary method equences m for linear sequences tion es (including negatives) es (unknown on both Dgy and constructions el lines ons

Computing 6 units covered Skills: Computational Thinking; Problem Solving; Analysis, Evaluation and Implementation; Technical Vocabulary	Welcome to Computing Students will study a range of ways to use technology whilst ensuring they do so safely, respectfully, responsibly and securely. Digital Identity, protection of online identity and assets and privacy are covered as is how to recognise inappropriate content, contact and conduct and how to react (including reporting concerns). How to use basic office applications and	come to Computing ents will study aIntroduction toe of ways to useProgrammingnology whilstto undertake a creativering they do soproject involves design,y, respectfully,planning,onsibly andimplementation andrely.testing.al Identity,Students will firstection of onlineexamine and recogniseto recognisesolution in code beforepropriate content,testing and fixing anyto react (includingThe solution is thenrting concerns).evaluated against theirto use basic officeand opportunities for		Programming with Text Students will learn how to use a text based programming language to create solutions to a variety of problems. As part of this students will learn how to make appropriate use of types, data structures, iteration and develop modular programs that use procedures and functions to create effective code.		Digital Systems Students will study the hardware and software components that make up computer systems and how they communicate with one another and with other systems. Students will learn how to represent numbers and text using Binary and hexadecimal, the need to do this and how this is achieved and used in the real world. Students will know about storage and data sizing and how the impacts and importance of these have		Data Handling Students will learn how to design, use and evaluate data using computer based systems, how to design collection mechanisms, collect data and produce meaningful and easy to read output. Privacy, purpose and intent of data collection is covered alongside weighing this against privacy and legality.		Networks and Communications Students will study how computer systems communicate and how this data is transferred in a secure fashion. Students will cover the key concepts of data encryption and why this is required before creating and implementing encryption systems both on and offline.
	produce original content is also covered.	impr to in	ovement are visited			changed over	time.			
		prod	luct for the target							
PE	Social Belonging	auur	Motivation		Motor Competer	ice	The Value of	PE	Confi	dence
5 units covered Skills include: Teamwork; Communication; Listening; Motivation; Determination; Confidence	Team Challenges Team Sports Fitness Challenge Orienteering	Rugby Trampolining (PE2) Gymnastics (PE3) Rounders (PE1) Tennis (PE2) Softball (PE3)			Basketball (PE1) Gymnastics (PE2) Handball (PE3) Athletics (PE1) Athletics (PE2) Athletics (PE3)		Trampolining (PE1) HRF (PE2) Rugby (PE3) Tennis (PE1) Rounders (PE2) Cricket (PE3)		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 Produc Material classificatio working properties, and boards, CAD and design.		ts - ns and oapers iterative	DT – Textiles - M. working properti iterative design. and functionality Safety.	aterials and Art & Design - es and elements and Jser needs Health &		- Formal artist analysis.	Food & Nutrition - Health & Safety, introduction to the food room. Eatwell guide, 8 healthy eating tips, nutrients and food groups.		