Year 8 Sciences Curriculum Map

Subject/Term	Term 1 Knowledge	Term 2 Knowledge	Те	erm 3 Knowledge	Term 4	Term 5 Kn	owledge	Term 6 Knowledge
					Knowledge			
Science Rotation of 5 Skills: Scientific thinking; Experimental skills; Analysis and evaluation; Scientific vocabulary	Digestion; The periodic table; Light	Breathing and Respirat Elements; Magnets an electromagnets	tion; Inh Id che Res	neritance; Types of emical Reaction; Energy sources	Natural Selection; Er changes in Reactions and pressure	nergy s; Levers	Projects	
Geography 5 units covered Skills: Knowledge; Understanding; Enquiry	G1 Population - Growth; Impacts; The Future	G2 Coasts – Processes Landforms; Manageme	s; G3 ent Dev Cas	International velopment – Indicators; se Studies; Causes	G4 Weather and Clir Change – Causes; M Characteristics	nate easuring;	G5 Asia ar Physical; H	nd China – Countries; Iuman
Maths 9 units covered Skills: Number Place Value & Four Operations; Number FDP & Ratio; Measurement & Units; Geometry, Angles & Shapes; Statistics; Problem Solving & Investigations	Number 1: Rounding to significa Bounds of errors Laws of indices Standard form Simplifying surds Algebra 1: Developing algebraid Working with terms Expanding double bu Expanding triple bra Factorising quadration Geometry & Data 1: Area and perimeter Area and circumfere Volume of prisms, p Surface area of prism Pythagoras	ant figures c skills and expressions rackets c expressions of compound shapes ence of circles yramids & spheres ns	Number 2	2: CM and HCF using prime fa Jse of venn diagrams Developing percentages skil Simple and compound intero Reverse percentages : Developing skills with algebr Solving equations with fracti Forming and solving equations Rearranging formulae Simultaneous equations y & Data 2: Probability scales and langua Probability of a single event Listing outcomes Expectation Free diagrams and venn diag	ctors ls est raic equations ions ons age grams	Number 3: Rec Dev Exc Pro Dir algebra 3: Stra Plo Gra Equ Plo Geometry & Bea Ang exterior Rig Sim	curring decir veloping ration hange rate opportion, inc ect proporti ically aight lines in tting linear g adient and y uation of a s tting quadra Data 3: veloping ang arings using gles in polyg ht-angled tr	mal conversions io skills calculations luding graphically on, including n four quadrants graphs -intercept traight line atic graphs gles skills angle facts cons, interior and igonometry congruence

Computing	Web Development	Object Orjent	ated C	omputational Thinking	Networks	Combining D	Digital	Cryptography	
6 units	Students will learn	Programming		tudents will study common	Students will learn	Skills		Students will learn	
ounce	about creating basic	Students will learn how		lgorithms and how they are	the hardware and	Students will use a		about a range of	
covered	content for the web	to solve a variety of		elected and applied to given	software	range of different		cryptographic methods	
Skills:	including HTML CSS and	more complex		ontexts both in code and offlin	e components that	applications to create		and how to encode	
Computational	IS	computational problems		ctivities	make un	and combine digital		and decode data using	
Thinking;	13.	and about the		cuviles.	computer	artefacts m	aking uso	them Students will	
Problem	Students will learn	ariantated pr	ogramming		notworks and	of the most	aking use	understand the	
Solving;	shout the structure of	orientated programming			hetworks, and	appropriato	coftwara	importance of	
Analysis,	web pages, web sites	paradigm.			now computers	for a varving	soltware	any stography and the	
Evaluation and	web pages, web sites	Studente will			communicate with	for a varying	secor	cryptography and the	
Implementation;	and interactive content	Students will	ما بد بار			Telateu tasks		the rest servel as here	
Technical	with a firm basis in	understand w	/ny the		with other			the past as well as now	
Vocabulary	making content	object orienta	ated		systems.			It is used in the current	
	accessible and easy to	paradigm is in	nportant					day.	
	use.	and now it re	lates to						
		modelling ob	Jects in the						
	Students will also learn	real world. St	udents will						
	about the difference	be able to explain when							
	between well-formed	it is appropriate to use							
	and valid markup and	Object Orientation and							
	how this can impact the	the advantages of doing							
	end user and the	so for the programmer							
	applications they use.	and others involved in							
		the development							
		process.							
PE	Communication	Intra-Perso		Skills	Resilience	Resilience		K&U of Health & Wellbeing	
5 units									
covered	asketball (PE1) Rugby (PE1		Rugby (PE1)		HRF (PE1)	HRF (PE1)		Handball (PE1)	
Skills include:	Netball (PE2)	Football (PE			Basketball (PE2)	Basketball (PE2)		HRF (PE2)	
Empathy;	Football (PE3)	Trampolinin		(PE3)	Tchoukball (PE3)	Tchoukball (PE3)		Rugby (PE3)	
Responsibility;	Cricket (PE1)	Tchoukball (1)	Athletics (PE1)	Athletics (PE1)		Trampolining (PE1)	
Adaptability:	Rounders (PE2)		Trampolining ((PE2)	Athletics (PE2)		Rugby (PE	2)	
Resilience	Tennis (PE3)		Handball (PE3))	Athletics (PE3)		HRF (PE3)		
DTA	DT – Multi-Materials -	DT – Graphic Products		DT – Textiles - Developing	g Art & Design - Form	al elements.	Food & Nutrition -		
Rotation of 5	Manufacturing processes	Frgonomics		sewing and machine skill	colour. pattern and	form.	Macronutrients, micronutrients		
	and production, technical	anthropometrics and		Printing processes and	Annotated sketches	and analysis	sis nutritional analysis.		
	drawings and quality	emerging technologie		materials analysis. User		, 0.0		,	
SKIIIS:	control.	Design decisions and		needs. Revision of H&S.					
investigation;		purpose/	user needs						
Anaiyse;		Pa. 5050/							
Generate Ideas;									
Make; Evaluate									