<u>Curriculum Map – Mathematics Year 8</u>

		Autumn Term						
Y8	Topic Title:	Topic Title:	Topic Title:	Topic Title:	Topic Title:			
	Four operations, types of	Four	Accuracy, powers, roots, standard form and	Percentages	Geometry - Shape and			
	number	operations,	calculator use	Big Question:	angles Big Question:			
Big Question: How do I use PV with		types of	Big Question:	How do I use	How do I identify and			
		number	How do I use approximation through rounding	arithmetic to help	describe 2d shapes?			
	numbers?	Big Question:	to estimate answers and calculate possible	solve percentage of	How do I use angle			
	What are directed numbers?	How do I use	resulting?	amounts problems?	properties to calculate			
How do I use multiplication and division with finding		the four	How do I use a calculator and other		missing angles?			
		operations with	technologies to calculate results accurately					
	factors?	fractions?	and then interpret them appropriately?					
	What are multiples?	How do I use	How do I recognise and use index notation?					
	How do I use multiples in	multiplying	How do I use standard form notation for					
	LCM problems?	fractions?	numbers?					
Links to NC	Use the concepts and	Use four	Round numbers and measures to an	Define percentage as	Derive and illustrate			
	vocabulary of prime	operations,	appropriate degree of accuracy	'number of parts per	properties of triangles,			
	numbers, factors (or	applied to		hundred', interpret	quadrilaterals, circles, and			
	divisors), multiples,	proper and	Use conventional notation for powers and	percentages and	other plane figures.			
	common, factors, common	improper	roots.	percentage changes as	Derive and use the sum of			
	multiples, highest common	fractions, and		a fraction or a	the angles in a triangle and			
	factor, lowest common	mixed numbers.	Introduce the laws of indices.	decimal, interpret	use it to deduce the angle			
	multiple, prime factorisation,			these multiplicatively,	sum of any polygon.			
	including using product		Interpret and compare numbers in standard	express.	Understand and use the			
	notation and the unique		form A x 10^n , $1 \le A \le 10$, where n is a positive		relationship between			
	factorisation property.		or negative integer or zero.		parallel lines and alternate			
A	Directo di surre have a UCS and	Farman and the sec	Chan double for lange and small much as	Calculating	and corresponding angles.			
Assessments	Directed numbers. HCF and	Four operations	Standard for large and small numbers.	Calculating	Calculating missing angles			
	LCM, PPF.	with fractions		percentages of an	in polygons. End of			
				amount.	Autumn term assessment.			

<u>Curriculum Map – Mathematics Year 8</u>

	Spring Term				
Y8	Topic Title:	Topic Title:	Topic Title:	Topic Title:	
	Probability - Mutually exclusive	Ratio	Algebra, Sequences, Equations and formulae	Perimeter, area and volume	
	outcomes	Big Question:	Big Question:	Big Question:	
	Big Question:	How do I link fractions and	How do I simplify and manipulate algebraic	How derive and apply formulae	
	What are Mutually exclusive	ratio?	expressions to maintain equivalence?	to calculate and solve problems	
	outcomes?	How do I use ratio with	w do I use ratio with How do I use algebraic methods to solve		
	How do you estimate the number recipes?		linear equations in one variable?	volume?	
	of times a particular event will		How do I substitute and rearrange scientific		
	happen? (Relative Frequency)		formulae?		
	How do you read and interpret		How do I recognise arithmetic sequences to		
	sample space diagrams?		generate terms and find the nth term?		
Links to NC	Use the 0-1 probability scale and	Understand that a	Simplify and manipulate algebraic	Derive and apply formulae to	
	understand that the probabilities	multiplicative relationship	expressions by taking out common factors.	calculate and solve problems	
	of all possible outcomes sum to 1.	between two quantities can		involving perimeter and are of	
		be expressed as a fraction	Solve linear equations.	triangles, parallelograms, trapezia	
	Explore relative frequency.	or a ratio.		circles, areas of circles, composite	
			Substitute numerical values into scientific	shapes and the volume of cuboids	
	Use sample space diagrams.	Divide a given quantity into	formulae.	(including cubes)	
		a ratio with more than two			
		parts.	Rearrange to change the subject.		
		Express the division of a	Recognise arithmetic sequences and find the		
		quantity into two or more	nth term.		
		parts as a ratio using			
		appropriate notation.			
Assessments	Calculating RF, and probabilities	Simplifying a ratio. Sharing	Solving linear equations.	Perimeter, area and volumes	
	from sample space diagrams.	an amount by a given ratio.	Substituting in to formulae.	problems. End of spring term	
		Find a part when given one	Rearrange a formula.	assessment.	
		part. Using recipes.			

<u>Curriculum Map – Mathematics Year 8</u>

	Summer Term						
Y8	Topic Title: Compound measures Big Question: How do I use the correct compound measure and covert measurements correctly?	Topic Title: Algebra - Straight line graphs Big Question: How do I recognise and understand straight line graphs in the form y = mx + c?	Topic Title: Statistics - charts, graphs and averages Big Question: How do I construct and interpret pir charts? How do I calculate and interpret measures of tendency?	Topic Title: Statistics Big Question: How do I describe simple relationships between two variables?			
Links to NC	Change freely between related standard units. Use compound measure such as speed, unit pricing and density to solve problems.	Recognise, sketch, and produce graphs of linear with appropriate scaling, using equations in x and y and the Cartesian plane.	Construct and interpret pie charts. Calculate and interpret measures of central tendency and spread, including consideration of outliers.	Describe simple mathematical relationships between two variables (bivariate data) in observational and experimental contexts and illustrate using scatter graphs. Identify and interpret correlation.			
Assessment	Find the speed/distance or time. Best value.	Plotting straight line graphs.	Construct and interpret pie charts.	Plot and interpret scatter graphs. End of year assessment.			