Mathematics Year 8 Curriculum Map

	Autumn Term				
Y8	Topic Title:	Topic Title:	Topic Title:	Topic Title:	Topic Title
	Autumn Unit 1 Number	Autumn Unit 1 Number	Autumn Unit 2	Autumn Unit 3	Autumn Unit 4 Expressions
	Big Question:	Big Question:	Area and Volume	Statistics, graphs and	and equations
	How do I apply place value knowledge	What are Prime numbers?	Big Question:	charts	Big Question:
	to integers, decimals, and measures?	How do I use multiplication	How do I use PV	Big Question:	How do I use correct
	What are directed numbers?	and division with finding	with numbers?	How do I interpret and	algebraic notation?
	How do I recognise and use index	factors?	How do I use and	show data?	What are algebraic
	notation?	How do I use multiples in	apply the area	How do I calculate and	expressions?
		LCM problems?	formulae for	interpret measures of	How do I substitute and
		How do I use	different shapes?	tendency?	rearrange scientific
		approximation through	How do I use and		formulae?
		rounding to estimate	apply the area		How do I simplify and
		answers?	and volume		manipulate algebraic
			formulae for cube		expressions to maintain
			and cuboids?		equivalence?
					How do I use algebraic
					methods to solve linear
					equations in one variable?
Links to NC	Understand and use place value for	Use the concepts and	Derive and apply	Construct and interpret	Simplify and manipulate
	decimals, measures and integers of any	vocabulary of prime	formulae to	appropriate tables,	algebraic expressions by
	size. Order positive and negative	numbers, factors (or	calculate and	charts, and diagrams.	taking out common factors.
	integers, decimals and fractions; use the	divisors), multiples,	solve problems	Calculate and interpret	Solve linear equations.
	number line as a	common, factors, common	Involving	measures of central	substitute numerical values
	model for ordering of the real numbers;	factor lowest common	perimeter, area	including consideration	Rearrange to change the
	Use the symbols =, \neq , <, >, \leq , \geq	multiple prime	and volume	including consideration	Rearrange to change the
	and roots	factorization		of outliers.	subject.
Accessments	GIU Mathe Dragross Unit Test 1: Number		CELL Maths	CELL Mathe Dragrass	CELL Mathe Dragrass Linit
Assessments	CFO Maths Progress Onit Test 1: NUMber		Drogross Unit Test	Unit Tost 2: Statistics	Tost 4: Expressions and
			2. Area and	graphs and charts	equations
			Volume		End of term assessment
			volume		Life of term assessmellt.

Mathematics Year 8 Curriculum Map

	Spring Term					
Y8	Topic Title: Spring Unit 5 Real - life graphs Big Question: How do you interpret and use real life graphs?	Topic Title: Spring Unit 6 Decimals and ratio Big Question: How do I use approximation through rounding to estimate answers? How do I apply place value knowledge to integers, decimals and measures? How do I link fractions and ratio? How do I use ratio with recipes?	Topic Title: Spring Unit 7 Lines and angles Big Question: How do I identify and describe 2d shapes? How do I use angle properties to calculate missing angles? How do I apply angle facts to a variety of problems?			
Links to NC	Plot and interpret graphs and graphs of non-standard functions in real contexts	Use approximation through rounding to estimate answers. Use the four operations with decimals. Use ratio notation, including reduction to simplest form divide a given quantity into two parts in a given part:part or part:whole ratio; express the division of a quantity into two parts as a ratio.	Derive and illustrate properties of triangles, quadrilaterals, circles, and other plane figures. Understand and use the relationship between parallel lines and alternate and corresponding angles. Derive and use the sum of the angles in a triangle and use it to deduce the angle sum of any polygon.			
Assessments	CFU Maths Progress Unit Test 5: Real – life graphs	CFU Maths Progress Unit Test 6: Decimals and ratio	CFU Maths Progress Unit Test 7: Line and angles End of term assessment.			

Mathematics Year 8 Curriculum Map

	Summer Term					
Y8	Topic Title:	Topic Title:	Topic Title:			
	Summer Unit 8 Calculating with	Summer Unit 9 Straight line graphs	Summer Unit 10 Percentages, decimals and fractions			
	fractions	Big Question:	Big Question:			
	Big Question:	What are do graphs of equations and	How do I use the correct compound measure and covert			
	How do I use the four operations with	functions look like?	measurements correctly?			
	fractions?					
	How do I use multiplying fractions?					
Links to NC	Use four operations, applied to proper and improper fractions, and mixed	Recognise, sketch and produce graphs of linear functions of one variable with	Change freely between related standard units.			
	numbers.	appropriate scaling, using equations in x and y	Use compound measure such as speed, unit pricing and			
		and the Cartesian plane.	density to solve problems.			
Assessment	CFU Maths Progress Unit Test 8 Calculating with fractions	CFU Maths Progress Unit Test 9 Straight line graphs	CFU Maths Progress Unit Test 10 Percentage, decimals and fractions End of term assessment.			