Mathematics at Congleton High School
Year 7 and 8

YEAR 7	Autumn		Algebraic Thinking			Place Value and Proportion		DECEMBER ASSESSMENT
		Topic	Sequences	Understand and use algebraic notation	Equality and equivalence	Place value ordering integers and decimals	Fraction, decimal and percentage equivalence	
		Next Step	Y8 - Sequences	Y7 - Equality and equivalence, Operations and equations with directed number Y8 - Working in the Cartesian Plane	Y7 - Operations and equations with directed number, Primes and proof	Y7 - Solving problems with addition and subtraction, Solving problems with multiplication and division Y8 - Indices, Standard index form	Y7 - Solving problems with multiplication and division, Addition and subtraction of fractions	
		Homework	Set 1 + problem solving Qs			Set 2 + problem solving Qs		
	Spring		Applications of Number			Directed Number	Fractional Thinking	MARCH ASSESSMENT
		Topic	Solving problems with addition and subtraction	Solving problems with multiplication and division	Fractions & % of amounts	Operations and equations with directed number	Addition and subtraction of fractions	
		Next Step	Y8 - Collecting and representing data, Number sense	Y7 - Prime numbers and proof Y8 - Ratio and scale, Multiplicative change, Area of trapezia and circles	Y8 - Fractions and %	Y8 - Brackets, equations and inequalities	Y8 - Multiplying and dividing fractions	
		Homework	Set 3 + problem solving Qs			Set 4 + problem solving Qs		
	Summer		Lines and Angles			Reasoning with Number		SAS EXAMS
		Topic	Constructing, measuring and using geometric notation	Developing geometric reasoning		Developing number sense	Sets and probability	Prime numbers and proof
		Next Step	Y8 - Angles in parallel lines and polygons, Area of trapezia and circles, Line symmetry and reflection			Y8 - Number sense	Y8 - Probability	Y8 - Indices
		Homework	Set 5 + problem solving Qs			Set 6 + problem solving Qs		

YEAR 8

Autumn

	Proportional Reasoning			Representations		
Prerequisite	Y7 - Place value and ordering integers and decimals, Solving problems with multiplication and division		Y7 - Solving problems with multiplication and division, Addition and subtraction of fractions	Y7 - Understand and use algebraic notation	Y7 - Solving problems with addition and subtraction	
Topic	Ratio and scale	Multiplicative change	Multiplying and dividing fractions	Working in the Cartesian plane	Collecting and representing data	Tables
Next Step	GCSE - 4b (H) / 11 (F)	GCSE - 11 (H) / 14 (F)	GCSE - 4a (H) / 4 (F)	GCSE - 6 (H) / 9 (F)	GCSE - 3 (H) / 3 (F)	
Homework	Set 1 + problem solving Qs			Set 2 + problem solving Qs		

Spring

	Algebraic techniques			Developing Number		
Prerequisite	Y7 - Understand and use algebraic notation, Equality and equivalence, Operations and equations with directed number	Y7 - Sequences	Y7 - Prime numbers and proof	Y7 - Fractions & % of amounts	Y7 - Place value ordering integers and decimals, Y8 - Indices	Y7 - Number sense
Topic	Brackets, equations and inequalities	Sequences	Indices	Fractions and precentages	Standard index form	Number sense
Next Step	GCSE - 2 (H) / 2 (F)	GCSE - 2 (H) / 5 (F)	GCSE - 1 (H) / 18 (F)	GCSE - 4a (H) / 4 (F)	GCSE - 18 (H) / 18 (F)	
Homework	Set 3 + problem solving Qs			Set 4 + problem solving Qs		

Summer

	Developing Geometry			Reasoning with Data		
Prerequisite	Y7 - Constructing, measuring and using geometric notation	Y7 - Solving problems with multiplication and division	Y7 - Developing geometric reasoning	Y7 - Place value ordering integers and decimals, Fraction decimal percentage equivalence, Solving problems with multiplication and division		
Topic	Angles in parallel lines and polygons	Area of trapezia and circles	Line symmetry and reflection	The data handling cycle		Measures of location
Next Step	GCSE - 5 (H) / 6 (F)	GCSE - 7 (H) / 6 (F)	GCSE - 8a (H) / 10 (F)	GCSE - 3 (H) / 3 (F)		GCSE - 3 (H) / 7 (F)
Homework	Set 5 + problem solving Qs			Set 6 + problem solving Qs		

Mathematics at Congleton High School
Year 9

			AUTUMN TERM		SPRING TERM		SUMMER TERM		
YEAR 9	**HIGHER**	CONTENT	Chapter 1 - Indices and Types of Number Chapter 2 - Algebraic Manipulation and Sequences	Chapter 3 - Averages and Representing Data Chapter 4a - Fractions, Decimals and Percentages	Chapter 4b - Ratio and Proportion	Chapter 5a - Angles in Polygons and Parallel Lines	Chapter 5b - Simple Pythagoras and Trigonometry Chapter 6 - Sketching Graphs		Chapter 7 - Area, Perimeter, Volume and Surface Area
		NEXT STEPS	Chapter 9 - Quadratic and Simultaneous Equations and Inequalities Chapter 17 - Complex Algebra	Chapter 11 - Multiplicative Reasoning Chapter 14 - Cumulative Frequency and Boxplots	Chapter 11 - Multiplicative Reasoning Chapter 12 - Similarity and Congruence Chapter 19b - Direct and Inverse Proportion	Chapter 8b - Constructions	Chapter 13 - Further Trigonometry Chapter 19a - Graphs		Chapter 12 - Similarity and Congruence Chapter 16 - Circle Theorems
		HWK	Set 1 (2 PS Questions from Chapter 1)	Set 2 (2 PS Questions from Chapter 2)	Set 3 (2 PS Questions from Chapter 3)	Set 4 (2 PS Questions from Chapter 4)	Set 5 (2 PS Questions from Chapter 5)		Set 6 (2 PS Questions from Chapter 6)
	FOUNDATION	CONTENT	Chapter 1 - Number Chapter 2 - Expressions and Substitution	Chapter 3 - Statistical Charts, Tables and Graphs Chapter 7 - Statistics, Sampling and Averages	Chapter 4 - Fractions, Decimals and Percentages		Chapter 5 - Equations, Inequalities and Sequences		Chapter 6 - Shapes, Lines and Angles
		NEXT STEPS	Chapter 4 - Fractions, Decimals and Percentages Chapter 5 - Equations, Inequalities and Sequences	Chapter 13 - Probability	Chapter 13 - Probability Chapter 14 - Multiplicative Reasoning Chapter 18 - Fractions, Reciprocals, Indices and Standard Form		Chapter 16 - Expanding, Factorising and Quadratics Chapter 20 - Rearranging Equations		Chapter 8 - Perimeter, Area and Volume Chapter 10 - Transformations
		HWK	Set 1 (2 PS Questions from Chapter 1)	Set 2 (2 PS Questions from Chapter 2)	Set 3 (2 PS Questions from Chapter 3)	Set 4 (2 PS Questions from Chapter 4)	Set 5 (2 PS Questions from Chapter 5)		Set 6 (2 PS Questions from Chapter 6)

OCTOBER ASSESSMENT — JANUARY ASSESSMENT — SAS EXAMS