

Mathematics at Congleton High School Year 7 and 8

			Algebraic Thinking					Place Value and Proportion			
	Autumn	Topic	Sequences	Understand an algebraic nota		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 equation with directed number, Prime and proof		nber, Primes	Y7 - Solving problems with addition and subtraction, Solving problems with multiplication and division Y8 - Indices, Standard index form		Fraction, decimal and percentage equivalence 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 Fra			ctional Thinking
R 7		Topic	Solving problems with addition and subtraction	Solving problems and	s with multiplic division	cation	ractions & % of amounts	Operations and equations with directed number		Addition and subtraction of fractions Y8 - Multiplying and dividing fractions	
YEAR		Next Step	Y8 - Collecting and representing data, Number sense	Y7 - Prime numbers a and scale, Multiplicati and	•	- Ratio trapezia	'8 - Fractions and %	Y8 - Brackets, equations and inequalities		Y8 - Multiplying and dividing fractions	
		Homework	6.22 million of the G					Set 4 + problem solving Qs			
			Set 3 + problem solving Qs Lines and Angles					Reasoning with Number			
	Summer	Topic	Constructing, measuring and using geometric notation Y8 - Angles in parallel lines and nolygons. Area of tranggia and			ng geometric reasoning		Developing number sense	Sets and probability Y8 - Probability		Prime numbers and proof
		Next Step						Y8 - Number sense			y8 - Indices
		Homework	Set 5 + problem solving Qs				Set 6 + problem solving Qs				

Proportional Reasoning					Representations					
Autumn	Prerequisite		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		Tables		
	Topic	Ratio and scale	Multiplicative change	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 - Sequences	Y7 - Prime numbers and proof	Y7 - Fractions & % of amounts integers and de		decimals, Y8 -	Y7 - Number sense		
	Topic	Brackets, equation	Sequences	Indices	Fractions and precentages Standard in		ndex form	Y7 - Number sense Number sense		
	Next Step	GCSE - 2 (GCSE - 2 (H) / 5 (F)	GCSE - 1 (H) / 18 (F)	GCSE - 4a (H) / 4 (F)	GCSE - 4a (H) / 4 (F) GCSE - 18				
	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 - 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				
	Spring	Next Step Homework Prerequisite Topic Next Step Homework Prerequisite Topic Next Step Homework Prerequisite	Topic Ratio and scale Next Step GCSE - 4b (H) / 11 (F) Homework Prerequisite equivalence, Operations and equival	Prerequisite Topic Ratio and scale Next Step Homework Topic Brackets, equations and inequalities Next Step Homework Topic Brackets, equations and inequalities Next Step Homework Topic Angles in parallel lines and polygons Next Step GCSE - 5 (H) / 6 (F) Ratio and scale Multiplicative change Set 1 + problem solving Qs Algebraic techniques Y7 - Understand and use algebraic notation, Equality and equivalence, Operations and equations with directed number Y7 - Understand and use algebraic notation, Equality and equivalence, Operations and inequalities Y7 - Understand and use algebraic notation, Equality and equivalence, Operations and inequalities Y7 - Understand and use algebraic notation, Equality and equivalence, Operations and inequalities Y7 - Understand and use algebraic notation, Equality and equivalence, Operations and inequalities Y7 - Understand and use algebraic notation, Equality and equivalence, Operations and inequalities Y7 - Understand and use algebraic notation, Equality and equivalence, Operations and inequalities Y7 - Solving problems with multiplication and division Y7 - Solving problems with multiplication and division Area of trapezia and circles Next Step GCSE - 5 (H) / 6 (F) GCSE - 7 (H) / 6 (F)	Prerequisite Topic Ratio and scale Multiplicative change Next Step Homework Topic Brackets, equations and inequalities Next Step Homework Topic Rest Step Topic Addition and use algebraic notation, Equality and equivalence, Operations and equations with directed number Frequisite Next Step Frerequisite Topic Ratio and scale Multiplicative change Multiplying fract Algebraic techniques Y7 - Understand and use algebraic notation, Equality and equivalence, Operations and equations with directed number Frequisite Frequisite Topic Rest Step GCSE - 2 (H) / 2 (F) GCSE - 2 (H) / 5 (F) Frerequisite Topic Angles in parallel lines and polygons Area of trapezia and circles Line symmator reflections and polygons Next Step GCSE - 5 (H) / 6 (F) Rest Step GCSE - 5 (H) / 6 (F) GCSE - 7 (H) / 6 (F) GCSE - 8 and polygons GCSE - 7 (H) / 6 (F) GCSE - 8 and polygons	Prerequisite Topic Ratio and scale Next Step Homework Topic Brackets, equations and inequalities Next Step Homework Topic Ratio and division Algebraic techniques Topic Brackets, equations and inequalities Next Step Homework Topic Ratio and scale Prerequisite Topic Ratio and scale Multiplicative change Algebraic techniques Y7 - Understand and use algebraic notation, Equality and equivalence, Operations and equations with directed number Topic Ratio and scale Nultiplicative change Multiplying and dividing fractions Multiplying and dividing fractions Y7 - Prime numbers and proof Next Step Frerequisite Topic Ratio and scale Multiplicative change Multiplicative change Multiplication and division Y7 - Prime numbers and proof Sequences Indices Prerequisite Y7 - Constructing, measuring and using geometry Y7 - Solving problems with multiplication and division Y7 - Solving problems with multiplication and division Y7 - Solving problems with multiplication and division Y7 - Prime numbers and proof RESE - 2 (H) / 2 (F) GCSE - 2 (H) / 5 (F) GCSE - 2 (H) / 5 (F) Frerequisite Topic Angles in parallel lines and polygons Area of trapezia and circles Line symmetry and reflection Topic Next Step GCSE - 5 (H) / 6 (F) GCSE - 7 (H) / 6 (F) GCSE - 8a (H) / 10 (F)	Prerequisite Y7 - Place value and ordering integers and decimals, Solving problems with multiplication and division, Addition and subtraction of fractions Y7 - Understand and use algebraic notation and division, Addition and subtraction of fractions	Prerequisite Topic Ratio and scale Multiplicative change Multiplicative change Next Step Homework Prerequisite Topic Brackets, equations and equations with directed number Topic Brackets, equations and inequalities Next Step Topic Brackets, equations and inequalities Topic Ratio and scale Multiplicative change Multiplicative change Multiplicative change Multiplying and dividing fractions Multiplying and dividing fractions Working in the Cartesian plane Collect represent Set 2 + problem solving Qs Topic Brackets, equations and inequalities Fractions and precentages Standard in generative Next Step Prerequisite Topic Angles in parallel lines and using geometric notation Topic Angles in parallel lines and polygons Area of trapezia and circles Next Step GCSE - 3 (H) / 3 (F) GCSE - 3 (H) / 10 (F) GCSE - 3 (H) / 3 (F)	Prerequisite Problems with multiplication and division, Addition and subtraction of fractions Topic Ratio and scale Multiplication and division, Addition and subtraction of fractions 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 Algebraic notation, Equality and equivalence, Operations and equations with directed number proof Next Step GCSE - 2 (H) / 2 (F) GCSE - 2 (H) / 2 (F) GCSE - 2 (H) / 3 (F) GCSE - 4a (H) / 4 (F) GCSE - 4a (H) / 4 (F) GCSE - 4a (H) / 4 (F) GCSE - 6 (H) / 9 (F) GCSE - 3 (H) / 3 (F) GCS	



Mathematics at Congleton High School Year 9

			AUTUMN	TERM	SPRING TERM	Л	SUMMER TERM		
	H.	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	
	HIGHE	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	
6 ~	_	нwк	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)	
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YE,	NOIL	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, Decima	als and Percentages	Chapter 5 - Equations, Inequalities and Sequences	Chapter 6 - Shapes, Lines and Angles	
	FOUNDA:	NEXT STEPS	Chapter 4 - Fractions, Decimals and Percentages Chapter 5 - Equations, Inequalities and Sequences	Chapter 13 - Probability	Chapter 13 - Prob Chapter 14 - Multiplicati Chapter 18 - Fractions, Reciprocals, Ir	ve Reasoning	Chapter 16 - Expanding, Factorising and Quadratics Chapter 20 - Rearranging Equations	Chapter 8 - Perimeter, Area and Volume Chapter 10 - Transformations	
	豆	нwк	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)	