## **Stage 7 Mathematics Curriculum Sequence**

**Subject Intent:** For every learner to be confident and fluent mathematicians who enjoy and succeed in mathematics, leaving school with a solid foundation of mathematical skills, knowledge and understanding, primed for their chosen fields in the 21<sup>st</sup> century.

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Big idea/Theme	Numbers and the	Checking,	Investigating	Patterns	Calculating	Mathematical
	number system	approximating and	properties of	<ul> <li>Investigate</li> </ul>	fractions, decimals	movement
	<ul> <li>Solve problems</li> </ul>	estimating	shapes	number patterns	and percentages	<ul> <li>Explore lines on</li> </ul>
	using common	<ul> <li>Explore ways of</li> </ul>	<ul> <li>Investigate the</li> </ul>	<ul> <li>Explore number</li> </ul>	<ul> <li>Calculate with</li> </ul>	the coordinate grid
	factors and highest	approximating	properties of 3D	sequences	fractions	• Use
	common factors	numbers	shapes	• Explore	<ul> <li>Calculate with</li> </ul>	transformations to
	<ul> <li>Exploring prime</li> </ul>	<ul> <li>Explore ways of</li> </ul>	• Explore	sequences	percentages	move shapes
	numbers	checking answers	quadrilaterals			<ul> <li>Describe</li> </ul>
	<ul> <li>Solve problems</li> </ul>		<ul> <li>Explore triangles</li> </ul>			transformations
	using common					
	multiples and					
	lowest common					
	multiples					
	<ul> <li>Explore powers</li> </ul>					
	and roots					
Big Idea/Theme	Calculating	Counting and	Algebraic	Measuring space	Solving equations	Presentation of
	<ul> <li>Exploring place</li> </ul>	comparing	manipulation	<ul> <li>Measure</li> </ul>	and inequalities	data
	value	<ul> <li>Comparing</li> </ul>	<ul> <li>Understand the</li> </ul>	accurately	<ul> <li>Explore way of</li> </ul>	<ul> <li>Explore types of</li> </ul>
	<ul> <li>Exploring written</li> </ul>	numbers	vocabulary and	<ul> <li>Convert between</li> </ul>	solving equations	data
	methods of	<ul> <li>Ordering integers</li> </ul>	notation of algebra	measures	<ul> <li>Solve two-step</li> </ul>	<ul> <li>Construct and</li> </ul>
	calculation	and decimals	Manipulate	<ul> <li>Solve problems</li> </ul>	equations	interpret graphs
	<ul> <li>Calculating with</li> </ul>	Ordering	algebraic	involving	<ul> <li>Solve three-step</li> </ul>	• Select
	decimals	fractions	expressions	measurement	equations	appropriate graphs
	<ul> <li>Know and apply</li> </ul>	Ordering	Explore functions			and charts
	the correct order of	integers, decimals	• Evaluate			
	operations	and fractions	algebraic			
		(including mixed	statements			
		numbers)				

		Using comparison				
		symbols in				
		algebraic contexts				
Big idea/Theme		Visualising and	Exploring fractions,	Investigating	Calculating space	Measuring data
		constructing	decimals and	angles	Develop	<ul> <li>Investigate</li> </ul>
		<ul> <li>Interpret</li> </ul>	percentages	<ul> <li>Investigate angles</li> </ul>	knowledge of area	averages
		geometrical	<ul> <li>Understand and</li> </ul>		<ul> <li>Investigate</li> </ul>	<ul> <li>Explore ways of</li> </ul>
		conventions and	use top-heavy		surface area	summarising data
		notation	fractions		Explore volume	Analyse and
		<ul><li>Apply</li></ul>	<ul> <li>Understand the</li> </ul>			compare sets of
		geometrical	meaning of			data
		conventions and	'percentage'			
		notation	Explore links			
			between fractions			
			and percentages			
Big idea/Theme			Proportional			
			reasoning			
			<ul> <li>Understand and</li> </ul>			
			use ratio notation			
			<ul> <li>Solve problems</li> </ul>			
			that involve			
			dividing in a ratio			
Knowledge that	Numbers and the	Checking,	Investigating	Patterns	Calculating	Mathematical
needs to stick	number system	approximating and	properties of	Know basic	fractions, decimals	movement
	<ul> <li>Know the first 6</li> </ul>	estimating	shapes	algebraic notation	and percentages	<ul> <li>Understand and</li> </ul>
	cube numbers	<ul><li>Check</li></ul>	Know the	Substitute	<ul> <li>Write a quantity</li> </ul>	use lines parallel to
	Know the first 12	calculations using	meaning of faces,	numbers into	as a fraction or	the axes, y = x and
	triangular numbers	approximation,	edges and vertices	formulae	percentage of	y = -x
	Know how to find	estimation or	Know the names	Write patterns	another	<ul> <li>Know how to</li> </ul>
	multiples and	inverse operations	of special triangles	and sequences	Use multiplicative	transform shapes
	factors		and quadrilaterals	Describe patterns	reasoning to	<ul> <li>Know how to</li> </ul>
	Know how to find		<ul> <li>Understand and</li> </ul>	and sequences	interpret	describe
	LCM and HCF		use geometric		percentage change	transformations

Knowledge that needs to stick	Use positive integer powers and associated real roots      Calculating	Counting and comparing  • Know the symbols =, ≠, <, >, ≤, ≥  • Order integers, percentages, decimals and fractions	notation for labelling angles, lengths, equal lengths and parallel lines  Algebraic manipulation  • Know the order of operations including brackets  • Know basic algebraic notation  • Simplify and manipulate expressions by collecting like terms  • Simplify and manipulate expressions by	Measuring space  • Measure accurately  • Convert between metric measurements  • Convert between measure of time	Add, subtract, multiply and divide with fractions and mixed numbers      Solving equations and inequalities          Know the order of operations including brackets          Simplify and manipulate expressions by collecting like terms          Simplify and manipulate expressions by multiplying a single term over a bracket	Presentation of data  Use and interpret a range of charts and diagrams  Draw a range of charts and diagrams
Knowledge that		Visualising and	· ·	Investigating		Measuring data
needs to stick		constructing  • Know the meaning of faces, edges and vertices  • Know the names of special triangles and quadrilaterals	decimals and percentages  • Write a quantity as a fraction or percentage of another	<ul> <li>angles</li> <li>Measure and draw angles</li> <li>Find missing angles at a point and on a line</li> </ul>	<ul> <li>Know that area of a rectangle = l × w</li> <li>Know that area of a triangle = b × h ÷</li> </ul>	Know how to work out measures of central tendency     Know how to calculate the range

		Understand and	Use multiplicative		Know that area of	
			· ·			
		use geometric	reasoning to		a parallelogram = b	
		notation for	interpret		×h	
		labelling angles,	percentage change		Know that area of	
		lengths, equal	<ul> <li>Add, subtract,</li> </ul>		a trapezium = ((a +	
		lengths and parallel	multiply and divide		b) ÷ 2) × h	
		lines	with fractions and		<ul> <li>Know that</li> </ul>	
			mixed numbers		volume of a cuboid	
					$= I \times w \times h$	
					Calculate surface	
					area of cubes and	
					cuboids	
Knowledge that			Proportional			
needs to stick			reasoning			
			Write a quantity			
			as a fraction or			
			percentage of			
			another			
			Use multiplicative			
			reasoning to			
			interpret			
			percentage change			
Demonstration of	Live assessment	Live assessment	Live assessment	Live assessment	Live assessment	Live assessment
Knowledge	in the classroom	in the classroom	in the classroom	in the classroom	in the classroom	in the classroom
(Assessment)	<ul><li>Analysis of</li></ul>	<ul> <li>Analysis of</li> </ul>	<ul> <li>Analysis of</li> </ul>	Analysis of	Analysis of	<ul> <li>Analysis of</li> </ul>
	student' written	student' written	student' written	student' written	student' written	student' written
	and verbal	and verbal	and verbal	and verbal	and verbal	and verbal
	response	response	response	response	response	response
	Spaced retrieval	Spaced retrieval	Spaced retrieval	Spaced retrieval	Spaced retrieval	Spaced retrieval
	Stage and age	Stage and age	Stage and age	Stage and age	Stage and age	Stage and age
	appropriate exam	appropriate exam	appropriate exam	appropriate exam	appropriate exam	appropriate exam
	questions	questions	questions	questions	questions	questions

	. Ctuatania	. Ctuatania	. Ctuatacia	. Ctuatagia	. Chustonia	. Ctuatacia
	Strategic	Strategic	Strategic	Strategic	Strategic	Strategic
	questioning	questioning	questioning	questioning	questioning	questioning
	• Address	• Address	• Address	• Address	• Address	• Address
	misconceptions	misconceptions	misconceptions	misconceptions	misconceptions	misconceptions
	Exit tickets	Exit tickets	Exit tickets	Exit tickets	Exit tickets	Exit tickets
		<ul> <li>Assessment in</li> </ul>		<ul> <li>Assessment in</li> </ul>		End of year
		class assessment,		class assessment,		assessment using a
		with multiple		with multiple		foundation GCSE
		choice and longer		choice and longer		Paper
		questions		questions		
Links to key stage	Numbers and the	Checking,	Investigating	Patterns	Calculating	Mathematical
2/ prior knowledge	number system	approximating and	properties of	<ul> <li>Know the</li> </ul>	fractions, decimals	movement
needed	Know how to find	estimating	shapes	vocabulary of	and percentages	Work with
	common multiples	<ul> <li>Approximate any</li> </ul>	<ul> <li>Know the names</li> </ul>	sequences	<ul> <li>Add and subtract</li> </ul>	coordinates in all
	of two given	number by	of common 3D	<ul> <li>Find the next</li> </ul>	fractions with	four quadrants
	numbers	rounding to the	shapes	term in a linear	different	Carry out a
	Know how to find	nearest 10, 100 or	Know the	sequence	denominators	reflection in a given
	common factors of	1000, 10 000, 100	meaning of face,	<ul> <li>Find a missing</li> </ul>	Add and subtract	vertical or
	two given numbers	000 or 1 000 000	edge, vertex	term in a linear	mixed numbers	horizontal mirror
	• Recall	Approximate any	Understand the	sequence	with different	line
	multiplication facts	number with one	principle of a net	Generate a linear	denominators	Carry out a
	to 12 × 12 and	or two decimal	Know the names	sequence from its	Multiply a proper	translation
	associated division	places by rounding	of special triangles	description	fraction by a	
	facts	to the nearest	Know the names		proper fraction	
		whole number	of special		Divide a proper	
		Approximate any	guadrilaterals		fraction by a whole	
		number with two	• Know the		number	
		decimal places by	meaning of		Simplify the	
		rounding to the	parallel,		answer to a	
		one decimal place	perpendicular		calculation when	
		Simplify a fraction	Know the		appropriate	
		by cancelling	notation for equal		• Use non-	
		common factors			calculator methods	

			sides, parallel sides,		to find a	
			right angles		percentage of an	
					amount	
					Convert between	
					fractions, decimals	
					and percentages	
Links to key stage	Calculating	Counting and	Algebraic	Measuring space	Solving equations	Presentation of
2/ prior knowledge	<ul> <li>Fluently recall</li> </ul>	comparing	manipulation	<ul> <li>Convert between</li> </ul>	and inequalities	data
needed	multiplication facts	<ul> <li>Understand that</li> </ul>	<ul> <li>Understand the</li> </ul>	metric units	<ul> <li>Know the basic</li> </ul>	<ul> <li>Construct and</li> </ul>
	up to 12 × 12	negative numbers	vocabulary and	<ul> <li>Use decimal</li> </ul>	rules of algebraic	interpret a
	<ul> <li>Fluently apply</li> </ul>	are numbers less	notation of algebra	notation up to	notation	pictogram
	multiplication facts	than zero	<ul> <li>Manipulate</li> </ul>	three decimal	<ul> <li>Express missing</li> </ul>	<ul> <li>Construct and</li> </ul>
	when carrying out	<ul> <li>Order a set of</li> </ul>	algebraic	places when	number problems	interpret a bar
	division	decimals with a	expressions	converting metric	algebraically	chart
	<ul> <li>Know the formal</li> </ul>	mixed number of	<ul> <li>Explore functions</li> </ul>	units	<ul> <li>Solve missing</li> </ul>	<ul> <li>Construct and</li> </ul>
	written method of	decimal places (up	• Evaluate	<ul> <li>Convert between</li> </ul>	number problems	interpret a line
	long multiplication	to a maximum of	algebraic	common Imperial	expressed	graph
	<ul> <li>Know the formal</li> </ul>	three)	statements	units; e.g. feet and	algebraically	<ul> <li>Understand that</li> </ul>
	written method of	<ul> <li>Order fractions</li> </ul>		inches, pounds and		pie charts are used
	short division	where the		ounces, pints and		to show
	<ul> <li>Know the formal</li> </ul>	denominators are		gallons		proportions
	written method of	multiples of each		<ul> <li>Convert between</li> </ul>		Use a template to
	long division	other		units of time		construct a pie
	<ul> <li>Convert between</li> </ul>	Order fractions		• Use 12- and 24-		chart by scaling
	an improper	where the		hour clocks, both		frequencies
	fraction and a	numerator is		analogue and		
	mixed number	greater than 1		digital		
		Know how to				
		simplify a fraction				
		by cancelling				
		common factors				

Links to key stage	Visualising and	Exploring fractions,	Investigating	Calculating space	Measuring data
2/ prior knowledge	constructing	decimals and	angles	Understand the	Understand the
needed	• Use a ruler to	percentages	<ul> <li>Identify angles</li> </ul>	meaning of area,	meaning of
	measure and draw	<ul> <li>Understand the</li> </ul>	that meet at a	perimeter, volume	'average' as a
	lengths to the	concept of a	point	and capacity	typicality (or
	nearest millimetre	fraction as a	<ul> <li>Identify angles</li> </ul>	<ul> <li>Know how to</li> </ul>	location)
	<ul> <li>Use a protractor</li> </ul>	proportion	that meet at a	calculate areas of	<ul> <li>Calculate the</li> </ul>
	to measure and	<ul> <li>Understand the</li> </ul>	point on a line	rectangles,	mean of a set of
	draw angles to the	concept of	<ul> <li>Identify vertically</li> </ul>	parallelograms and	data
	nearest degree	equivalent	opposite angles	triangles using the	
		fractions	<ul> <li>Know that</li> </ul>	standard formulae	
		<ul> <li>Understand the</li> </ul>	vertically opposite	<ul> <li>Know that the</li> </ul>	
		concept of	angles are equal	area of a triangle is	
		equivalence		given by the	
		between fractions		formula area = ½ ×	
		and percentages		base × height =	
				base × height ÷ 2 =	
				bh/2	
				Know appropriate	
				metric units for	
				measuring area and	
Italia Ialia atau		B		volume	
Links to key stage		Proportional			
2/ prior knowledge needed		reasoning • Find common			
needed					
		factors of pairs of numbers			
		Convert between			
		standard metric			
		units of			
		measurement			
		Convert between			
		units of time			
		ants of tille			

			- Danall			
			• Recall			
			multiplication facts			
			for multiplication			
			tables up to 12 × 12			
			Recall division			
			facts for			
			multiplication			
			tables up to 12 × 12			
			Solve comparison			
			problems			
Skill set	Communication	Communication	Communication	Communication	Communication	Communication
development	Independence	Independence	Independence	Independence	Independence	Independence
	Teamwork	Teamwork	Teamwork	Teamwork	Teamwork	Teamwork
	Construct logical	Construct logical	Construct logical	Construct logical	Construct logical	Construct logical
	arguments	arguments	arguments	arguments	arguments	arguments
	Critical thinking	Critical thinking	Critical thinking	Critical thinking	Critical thinking	Critical thinking
	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving
	Generalisation	Generalisation	Generalisation	Generalisation	Generalisation	Generalisation
	Analytical thinking	Analytical thinking	Analytical thinking	Analytical thinking	Analytical thinking	Analytical thinking
	Quantitative	Quantitative	Quantitative	Quantitative	Quantitative	Quantitative
	reasoning	reasoning	reasoning	reasoning	reasoning	reasoning
	Time management	Time management	Time management	Time management	Time management	Time management
	Reading	Reading	Reading	Reading	Reading	Reading
	comprehension	comprehension	comprehension	comprehension	comprehension	comprehension
	Active learning	Active learning	Active learning	Active learning	Active learning	Active learning
	Inductive reasoning	Inductive reasoning	Inductive reasoning	Inductive reasoning	Inductive reasoning	Inductive reasoning
	Interpret and apply	Interpret and apply	Interpret and apply	Interpret and apply	Interpret and apply	Interpret and apply
	outcomes	outcomes	outcomes	outcomes	outcomes	outcomes
	Communicate	Communicate	Communicate	Communicate	Communicate	Communicate
	effectively	effectively	effectively	effectively	effectively	effectively
	Explain the	Explain the	Explain the	Explain the	Explain the	Explain the
	meaning of that	meaning of that	meaning of that	meaning of that	meaning of that	meaning of that
	answer	answer	answer	answer	answer	answer

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	Explain any	Explain any	Explain any	Explain any	Explain any	Explain any
	assumptions made	assumptions made	assumptions made	assumptions made	assumptions made	assumptions made
	Link problems and	Models and	Models and	Models and	Link problems and	
	solutions to the	representations	representations	representations	solutions to the	Mathematical
	real world	Scaling	Mathematical	Ability to	real world	reasoning
	Mathematical	Spatial sense	reasoning	manipulate	Algebraic notation	Scaling
	reasoning	Measurement	Algebraic notation	Construct logical	Classification	Classification
	Number structure	Pattern spotting	Classification	arguments and	Ability to	Construct logical
	Number notation	Estimating	Ability to	expose illogical	manipulate	arguments
	Estimating	Number sense	manipulate	arguments	Spatial sense	Spatial sense
	Number sense		Spatial sense	Measurement	Measurement	Information
	Number facility		Measurement	Pattern spotting	Pattern spotting	ordering
			Information	Estimating	Number sense	
			ordering	Number sense	Number facility	
Key Vocabulary	Numbers and the	Checking,	Investigating	Patterns	Calculating	Mathematical
(Tier 2/Tier 3)	number system	approximating and	properties of	Pattern	fractions, decimals	movement
	((Lowest) common)	estimating	shapes	Sequence	and percentages	Coordinates
	multiple and LCM	Approximate	Face	Linear	Mixed number	Axis (axes)
	((Highest)	Round	Edge	Term	Equivalent fraction	x-axis
	common) factor	Decimal place	Vertex (vertices)	Term-to-term rule	Simplify	y-axis
	and HCF	Check	Cube	Ascending	Cancel	Origin
	Power	Solution	Cuboid	Descending	lowest terms	Quadrant
	(Square and cube)	Answer	Prism	_	Proper fraction	Translation
	root	Estimate	Cylinder		improper fraction	Reflection
	Triangular number	Order of magnitude	Pyramid		top-heavy fraction	Rotation
	Square number	Accurate	Cone		vulgar fraction	Transformation
	Cube number	Accuracy	Sphere		Percent	Object
	Prime number	Significant figure	Quadrilateral		percentage	Image
	Linear sequence	Cancel	Square		Multiplier	Congruent
	Arithmetic	Inverse	Rectangle		Increase	congruence
	sequence	Operation	Parallelogram		decrease	Mirror line
	·		(Isosceles)			Vector

			Kite			
			Rhombus			
			Delta			
			Arrowhead			
			Diagonal			
			Perpendicular			
			Parallel			
			Triangle			
			Scalene			
			Right-angled			
			Isosceles			
			Equilateral			
Key Vocabulary	Calculating	Counting and	Algebraic	Measuring space	Solving equations	Presentation of
(Tier 2/Tier 3)	Improper fraction	comparing	manipulation	Length	and inequalities	data
	Top-heavy fraction	Positive number	Algebra	Distance	Algebra	Data
	Mixed number	Negative number	Expression	Mass	Algebraic,	Categorical data
	Operation	Integer	Term	Weight	Algebraically	Discrete data
	Inverse	Numerator	Formula (formulae)	Volume	Unknown	Pictogram
	Long multiplication	Denominator	Equation	Capacity	Equation	Symbol
	Short division		Function	Metre	Operation	Key
	Long division		Variable	Centimetre	Solve	Frequency
	Remainder		Mapping diagram	Millimetre	Solution	Table
			Input	Tonne	Brackets	Frequency table
			Output	Kilogram	Symbol	Tally
			Represent	Gram	Substitute	Bar chart
			Substitute	Milligram		Time graph
			Evaluate	Litre		Time series
			Like terms	Millilitre		Bar-line graph
			Simplify	Hour		Vertical line chart
			Collect	Minute		Scale
				Second		Graph
				Inch		Axis (axes)
				Foot		Line graph

			Yard		Pie chart
			Pound		Sector
			Ounce		Angle
			Pint		Maximum
			Gallon		Minimum
			Line segment		
Key Vocabulary	Visualising and	Exploring fractions,	Investigating	Calculating space	Measuring data
(Tier 2/Tier 3)	constructing	decimals and	angles	Perimeter	Average
	Edge	percentages	Angle	Area	Spread
	Face	Fraction	Degrees	Volume	Consistency
	Vertex (vertices)	Improper fraction	Right angle	Capacity	Mean
	Plane	Proper fraction	Acute angle	Surface area	Median
	Parallel	Vulgar fraction	Obtuse angle	Square	Mode
	Perpendicular	Top-heavy fraction	Reflex angle	Rectangle	Range
	Regular polygon	Percentage	Protractor	Parallelogram	Measure
	Rotational	Proportion	Vertically opposite	Triangle	Data
	symmetry		Geometry	Trapezium	Statistic
			Geometrical	(trapezia)	Statistics
				Polygon	Approximate
				Cube	Round
				Cuboid	
				Square millimetre	
				Square centimetre	
				Square metre	
				Square kilometre	
				Cubic centimetre	
				Centimetre cube	
				Formula (formulae)	
				Length	
				Breadth	
				Depth	
				Height	
				Width	

Key Vocabulary			Proportional						
(Tier 2/Tier 3)			reasoning						
			Ratio						
			Proportion						
			Compare						
			Comparison						
			Part						
			Simplify						
			Common factor						
			Cancel						
			Lowest terms						
			Unit						
Reading and Oracy		Students need to be able read, speak and think in mathematical language, identifying key concepts and processes of the wordier							
	questions. Teachers will improve students' verbal communication skills, to enable them to show their understanding of								
	mathematics accurately. Common strategies within lessons are:								
	-		I process information f	rom wordier question	S				
	- asking open questic								
	- expanding and justi								
	•	•	ce, to practice oracy sk	IIIS					
		cabulary and terms wi		a tha a ma a ti a a llu a a a la la					
	- addressing commor	•	en using tier 2 and 3 ma	athematically vocabula	ar y				
Numeracy	Addition	Area	Algebra	Angles	Area	Averages: Mean,			
Numeracy	Decimals	Surface area and	Area	Area	Surface area and	Median and Mode			
	Division	volume	Surface area and	Surface area and	volume	Data, graphs and			
	Estimation,	Cartesian	volume	volume	Cartesian	charts			
	approximation and	coordinate	Arithmetic	Equations	coordinate	Geometry			
	rounding	Estimation,	Equations	Geometry	Equations	Multivariate			
	Fractions	approximation and	Geometry	Measurement	Perimeter and	analysis			
	Money	rounding	Net of 3D solids	Net of 3D solids	circumference	Probability			
	Multiplication	Geometry	Perimeter and	Perimeter and	Properties of	Real-World Maths			
	Numbers and	Measurement	circumference	circumference	polygons	Shapes and solids			
	concepts	Net of 3D solids	Polygons		Real-World Maths	Transformations			

	Numbers Order of operations Percentages Positive and negative numbers Ratio and proportion Subtraction	Polygons Properties of polygons Shapes and solids	Properties of polygons Real-world maths Shapes and solids Solids Systems of measurement Transformations	Properties of polygons Shapes and solids Systems of measurement Time	Shapes and solids Solids Simultaneous equations Substitution Symbols	Types of data
Opportunities			T	T	T	
Careers	People who are good with numbers could have a career in any of the examples below, although this list is not exhaustive: Accountancy Economist Computer research scientist Software developer Computer and information research scientists Market research Analyst Statistician Microbiologists Engineering Maths teacher Quantity Surveyor	People who are good with numbers could have a career in any of the examples below, although this list is not exhaustive: Accountancy Economist Computer research scientist Software developer Computer and information research scientists Market research Analyst Statistician Microbiologists Engineering Maths teacher Quantity Surveyor	People who are good with Cartesian planes could have a career in any of the examples below, although this list is not exhaustive: Administrative managers Computer and information systems managers Engineering and natural sciences Farmers Financial Funeral directors Medical and health services Politics Engineers Actuaries	People who are good with geometry could have a career in any of the examples below, although this list is not exhaustive: Animators Fashion Designer Maths teacher Plumber CAD Engineer Game developer Interior designer Surveyor City Planner Construction Worker Cartographer Mathematician Mechanical Engineer	People who are good with geometry could have a career in any of the examples below, although this list is not exhaustive: Dentists Doctors Nurses Pharmacies Firefighters Chefs Retail Estate agents Architects Surveyors Computer programmers Computer software engineers Farming	People who are good with data could have a career in any of the examples below, although this list is not exhaustive: Administrative managers Computer and information systems managers Engineering and natural sciences Farmers Financial Funeral directors Medical and health services Politics Engineers Actuaries Human resources

			Payroll Stock clerks Order fillers Data entry and information processing workers	Architect	Electrical and electronics installers and repairers Construction Glaziers Painters and decorators Plumbers Gas fitters Retail	Stock clerks Order fillers Data entry and information processing workers		
SMSC including British Values, Culture and Diversity	The mathematics curriculum helps prepare pupils for life in a modern Britain by developing their personal qualities and social skills with the chance to discuss, argue and challenge other people's ideas in a safe environment. Everyone is encouraged to express their own personal views on the mathematical topics. Alongside everyone learning how to be accepting of other people's views, students gain realisation that there is not always one route to an answer but several different ways.  Spiritual - pupils are encouraged to use their imagination and creativity to break problems down and solve them by thinking outside of the box.  Moral - pupils look at consequences and what happens if rules are not followed. Will an action to one number apply to all numbers?  Social - developing personal qualities and social skills. Being able to work with others, show perseverance, being able to ask for help and not being afraid to try something new.  Cultural - understanding others students' views and being able to express their own views. Exploring problems from a range of cultures.							
Relationship and Sex Education and Health Education	The mathematics cur healthy and successfu know where to acces contexts in their lives	ul adult life. All pupils s support. This develo . Character traits suc	de pupils with the know are supported to deve ops their capacity to ma h as perseverance and ctively cultivated and co	lop resilience, to know ake sound decisions w self-belief, together w	v how and when to ask hen facing risks, challe	for help, and to nges and complex		