



Curriculum Map: Year 8										
	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6				
Торіс	Ratio and Scale.	Working in the Cartesian	Brackets, equations and	Fractions and Percentages.	Angles in parallel lines	The data handling				
	Multiplicative change.	plane.	inequalities.	Standard index form.	and polygons.	cycle.				
	Multiplying and dividing	Representing data.	Sequences.	Number sense.	Area of trapezia and	Measures of location.				
	fractions.	Tables and Probability.	Indices.		circles.					
					Lines of symmetry and					
					reflection.					
Intent	Ensure students are resilient learners with the ability to persevere through challenges.									
	Develop a deep understa	anding of mathematical cond	cepts.		1					
Key	Ratio	Cartesian Plane	Expanding & Factorising	Equivalent fractions, decimals &	Angle rules	Data Collection				
Knowledge	Scale	Linear graphs	Linear equations	percentages	Parallel lines	Data Representation				
	Proportional Reasoning	Bivariate data	Linear Inequalities	Percentage increase and	Properties of polygons	Misleading Graphs				
	Conversion Graphs	Grouped and	Linear sequences	decrease	Constructions	Questionnaires				
	Equivalence	ungrouped data	Algebraic rules for	Standard form	Area and Perimeter	Averages				
	Fraction arithmetic	Probability	sequences	Estimation	Line symmetry	Range				
		Sample spaces	Index Laws	Metric Units	Reflection	Outliers				
Key Skills	Understand and	Plotting coordinates.	Expanding and simplifying	Convert between fractions,	Use basic angle facts.	Design and criticise				
	simplify ratios.	Understanding	single brackets.	decimals and percentages.	Identify and calculate	questionnaires.				
	Share in a ratio.	equations for vertical	Expanding double	Calculate percentages. Use of	with alternate,	Draw and interpret				
	Linking ratio to	and horizontal lines.	brackets.	multipliers for increase, decrease	corresponding and co-	bar charts, pictograms,				
	contexts such as	Substituting into a linear	Factorising in a single	and reverse percentages.	interior angles.	pie charts and line				
	circumference and	equation to plot a graph.	bracket.	Express one number as a	Construct triangle and	graphs.				
	gradient.	Drawing and	Solving equations with	percentage of another.	quadrilaterals.	Choose appropriate				
	Using both direct and	interpreting scatter	brackets.	Work with and find percentage	Understand and use the	diagrams.				
	inverse proportion.	graphs.	Understanding and solving	change.	interior and exterior	Compare distributions				
	Currency Conversions.	Understanding types of	inequalities.	Convert to and from standard	angle sum of polygons.	using charts.				
	Using scale in	data and their uses.	Generating sequences	form.	Construct bisectors.	Identify misleading				
	diagrams, maps and	Choosing and	from an algebraic rule.	Calculate with numbers in	Calculate the area of	graphs.				
	similar shapes.	interpreting appropriate	Finding the nth term of a	standard form.	triangles, rectangles,	Understand and find				
	Multiplying and dividing	graphical	linear sequence.	Round numbers to significant	parallelograms, circles	mean, median and				
	both integers and	representations.	Simplifying expressions	figures and decimal places.	and trapeziums.	mode.				
	fractions.	Understanding and	with indices including	Estimate the answer to a	Find the perimeter and	Find averages from				
	Understanding the	using sample spaces for	adding and subtracting.	calculation.	area of compound	grouped and				
	reciprocal and its use.	probability.	Using the index laws for	Convert metric units for weight,	shapes.	ungrouped data.				
		Finding probability from	multiplying, dividing and	length, capacity, area and volume.	Recognise line symmetry.	Identify outliers.				
		two-way tables and Venn	powers of powers.		Reflect a shape in a line	Compare distributions				
		diagrams.			with a given equation.	using averages and				
						range.				

Key	Ratio	Quadrant	Expand	Decimal	Polygon	Hypothesis					
Vocabulary	Scale	Co-ordinate	Factorise	Percentage	Interior	Sample					
	Proportion	Horizontal	Binomial	Conversion	Exterior	Biased					
	Simplify	Vertical	Highest Common Factor	Multiplier	Alternate	Frequency					
	Equivalent	Equation	Equation	Increase	Corresponding	Tally					
	Factor	Intercept	Expression	Decrease	Co-interior	Scale					
	Multiple	Linear	Like and Unlike Terms	Express	Parallel	Axes					
	Denominator	Correlation	Inequality	Profit	Construct	Кеу					
	Numerator	Line of best fit	Solve	Loss	Perpendicular	Proportion					
	Circumference	Outlier	Term	Interest	Formula	Comparison					
	Gradient	Interpolate	Coefficient	Standard form	Diameter	Spread					
	Exchange rate	Extrapolate	Linear	Power of ten	Radius	Average					
	Directly proportional	Quantitative	Non-linear	Place Value	Quadrilateral	Consistent					
	Inversely proportional	Qualitative	Position	Negative	Parallelogram	Misleading					
	Similar	Discrete	Substitute	Positive	Trapezium	Mean					
	Reciprocal	Continuous	Index/Indices	Significant Figures	Compound	Median					
	Improper Fraction	Frequency	Simplify	Integer	Symmetry	Mode					
	Mixed Number	Class	Expression	Decimal places	Reflect	Modal					
		Outcome	Power	Estimate	Object	Frequency					
		Sample space	Base	Underestimate	Image	Midpoint					
		Intersection	Exponent	Overestimate	Congruent	Outlier					
		Union	Product	Bounds	Vertex						
Key Reading	Sparx Maths Website										
	Individual Mathematics exercise books										
	Microsoft Teams work										
End Point	Students should be fluer	Students should be fluent in the key knowledge and skills listed for each topic.									
	Students should be able	Students should be able to apply understanding to reason and solve problems in a variety of contexts.									
Form of	End of unit assessment a	End of unit assessment after each topic including section for prior learning.									
Assessment	Key skills tests twice a half term.										
Enrichment	UKMT Maths challenge and team Maths challenge.										
opportunities	Sparx independent learning and games.										
	Seasonal rewards: Christmaths lesson; spring maths enrichment trip; summer puzzle day.										

