Year 8 Curriculum Map: Maths

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
	Proportional	Representations	Algebraic Techniques	Developing Number	Developing Geometry	Reasoning with Data
	Reasoning					
Unit Title						
& Assessment			Half-Termly		Half-Termly	Half-Termly
Task	Half-Termly	Half-Termly	Cumulative	Half-Termly	Cumulative	Cumulative
	Cumulative	Cumulative	Assessment	Cumulative	Assessment	Assessment
	Assessment	Assessment		Assessment		
	To be able to share	To be able to work	To be able to expand	To be able to find	To be able to reason	To be able to present
	values in a ratio,	with coordinates in	and factorise	fractions and	with angles in parallel	and interpret data
	given the total or	the Cartesian plane,	expressions, solving	percentages of	lines and polygons,	given in appropriate
	part, exploring its	drawing and	two-step equations	amounts, both with	including the forming	formats, including
	applications to form	interpreting linear	and inequalities,	and without a	and solving of	line/bar charts, pie
	conjectures with	graphs.	including in context.	calculator, exploring	equations.	charts and frequency
	shape.			real-life scenarios.		tables.
		To be able to draw	To be able to find		To be able to find the	
	To be able to solve	and interpret real-life	algebraic rules for	To be able to write	area of more complex	To be able to find and
Key Knowledge/	problems with	graphs, including	linear sequences, and	numbers in standard	2D shapes, such as	use averages and
Skills	directed proportion,	scatter graphs,	use these to generate	form and calculate	circles and trapezia	range to compare
	including currency	identifying types of	sequences.	with numbers given	through developing	and contrast data
	and enlarging shapes.	data and		in standard form.	geometric problem-	given.
		representing data in a	To be able to use a		solving skills.	
	To be able to multiply	variety of formats.	variety of algebraic	To be able to round		
	and divide fractions,		techniques to	numbers and	To be able to describe	
	simplifying	To be able to find	manipulate	estimate answers to	line symmetry and	
	calculations in mixed	probabilities from	expressions including	calculations.	use this to reflect	
	number form.	sample-space	powers.		shapes on a grid.	
		diagrams, tables and		To be able to convert		
		frequency trees to		metric units of length,		
Dational	This costs have the	solve problems.	This wait do also	mass and volume.	This could be seen to	This couls all a
Rationale:	This unit builds upon	This unit builds upon	This unit develops	In this unit, students	This unit supports	This unit allows
	fraction and number	prior work in the	student's ability to	develop their ability	students geometric	students to explore
	work met at KS2 and	Cartesian plane,	manipulate algebraic	to reason with	reasoning, developing	the different types of
	Year 7, developing	allowing students to	expressions and	number, expanding	their angle rules and	data, data collection
	student confidence in	draw graphs.		on their		methods, and how to

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solving	ng problems with	equations, recapping	understanding of	work on area met in	identify misleading
ratios	s and fractions. Students will exten	work from Year 7.	fractions. Students	Year 7.	data. Students will
	knowledge of graph	s	will enhance their		explore how to
	to explore data and		knowledge of	Students will further	construct and
	probability in conte	ct.	multiplying/dividing	develop an	interpret appropriate
			by powers of 10 to	understanding of the	tables, charts, and
			convert metric units.	properties of shape	diagrams for
				to include symmetry	ungrouped and
				of shapes and	grouped data.
				reflection.	