<u>Y8 Autumn HT 1 -</u>	<u> Y8 Autumn HT 2 -</u>	<u>Y8 Spring HT 1 -</u>	<u> Y8 Spring HT 2 -</u>	<u> Y8 Summer HT 1 -</u>	Y Summer HT 2 -
Unit 1: Ratio and Scale	Unit 4: Working in the	Unit 7: Brackets,	Unit 10: Fractions and percentages	Unit 13: Angles in parallel	Unit 16: The data
	<u>Cartesian plane</u>	equations and		lines and polygons	handling cycle
- Understand the		<u>inequalities</u>	- Convert fluently between key		
meaning and	- Work with co-ordinates		fractions, decimals and percentages.	- Understand and use basic	- Set up a statistical
representation of ratio.	in all four quadrants.	- Form algebraic	- Calculate key fractions, decimals and	angles rules and notation.	enquiry.
- Understand and use	- Identify and draw lines	expressions.	percentages of an amount without a	- Investigate angles	- Design and
ratio notation.	that are parallel to the	- Use directed number	calculator.	between parallel lines and	criticise
- Solve problems	axes.	with algebra.	- Calculate fractions, decimals and	the transversal.	questionnaires.
involving ratios of the	- Recognise and use the	- Multiply out a single	percentages of an amount using	- Identify and calculate	- Draw and
form 1 : <i>n</i> (or <i>n</i> : 1).	line $y=x$.	bracket.	calculator methods.	with alternate and	interpret
- Solve proportional	- Recognise and use lines	- Factorise into a single	- Convert between decimals and	corresponding angles.	pictograms, bar
problems involving the	of the form $y=kx$.	bracket.	percentages greater than 100%.	- Identify and calculate	charts and vertical
ratio <i>m</i> : <i>n</i> .	- Link <i>y=kx</i> to direct	- Expand multiple single	- Percentage decrease with a	with co-interior, alternate	line charts.
- Divide a value into a	proportion problems.	brackets and simplify	multiplier.	and corresponding angles.	- Draw and
given ratio.	- Explore the gradient of	- Expand a pair of	- Calculate percentage increase and	- Solve complex problems	interpret multiple
- Express ratios in their	the line <i>y=kx</i> .	binomials.	decrease using a multiplier.	with parallel line angles.	bar charts.
simplest integer form.	- Recognise and use lines	- Solve equations,	- Express one number as a fraction or	- Construct triangles and	- Draw and
- Express ratios in the	of the form $y=x+a$.	including with brackets.	a percentage of another without a	special quadrilaterals.	interpret pie
form 1 : <i>n</i> .	- Explore graphs with	- Form and solve	calculator.	- Investigate the properties	charts.
- Compare ratios and	negative gradient ($y=-kx$,	equations with	- Express one number as a fraction or	of special quadrilaterals.	- Draw and
related fractions.	y=a-x, x+y=a).	brackets.	a percentage of another using	- Identify and calculate	interpret line
- Understand π as the	- Link graphs to linear	- Understand and solve	calculator methods.	with sides and angles in	graphs.
ratio between diameter	sequences.	simple inequalities.	- Work with percentage change.	special quadrilaterals.	- Choose the most
and circumference.	- Plot graphs of the form	- Form and solve	- Choose appropriate methods to	- Understand and use the	appropriate
- Understand gradient	y=mx+c.	inequalities.	solve percentage problems.	properties of diagonals of	diagram for given
of a line as a ratio	- Explore non-linear	- Solve equations and	- Find the original amount given the	quadrilaterals.	set of data.
	graphs.	inequalities with	percentage less than 100%.	- Understand and use the	- Represent and
Unit 2: Multiplicative	- Find the midpoint of a	unknowns on both	- Find the original amount given the	sum of exterior angles of	interpret grouped
Change	line segment.	sides.	percentage greater than 100%.	any polygon.	quantitative data.
	U U	- Form and solve	- Choose appropriate methods to	- Calculate and use the sum	- Find and interpret
-Solve problems	Unit 5: Representing data	equations and	solve complex percentage problems.	of the interior angles in any	the range,
involving direct		inequalities with		polygon.	- Compare
proportion.	- Draw and interpret	unknowns on both	Unit 11: Standard index form	- Calculate missing interior	distributions using
- Explore conversion	scatter graphs.	sides.		angles in regular polygons.	charts.
graphs.	- Understand and	- Identify and use	- Investigate positive powers of 10.	- Prove simple geometric	- Identify
-Convert between	describe linear	formulae, expressions,	- Work with numbers greater than 1 in	facts.	misleading graphs.
currencies.	correlation.	identities and	standard form.	- Construct an angle	
- Explore direct	- Draw and use line of	equations.	- Investigate negative powers of 10.	bisector.	Unit 17: Measures
proportion graphs.	best fit.				of location

- Explore relationships	- Identify non-linear	Unit 8: Sequences	- Work with numbers between 0 and 1	- Construct a perpendicular	
between similar shapes.	relationships.		in standard form.	bisector of a line segment.	- Understand and
- Understand scale	- Identify different types	- Generate sequences	- Compare and order numbers in	_	use the mean,
factors as multiplicative	of data.	given a rule in words.	standard form.	<u>Unit 14: Area of trapezia</u>	median and mode.
representations.	- Read and interpret	- Generate sequences	- Mentally calculate with numbers in	and circles	- Choose the most
- Draw and interpret	ungrouped frequency	given a simple algebraic	standard form.		appropriate
scale diagrams.	tables.	rule.	- Add and subtract numbers in	- Calculate the area of	average.
- Interpret maps using	- Read and interpret	- Generate sequences	standard form.	triangles, rectangles and	- Find the mean
scale factors and ratios.	grouped frequency	given a complex	- Multiply and divide numbers in	parallelograms.	from an ungrouped
	tables.	algebraic rule.	standard form.	- Calculate the area of a	frequency table.
Unit 3: Multiplying &	- Represent grouped	- Find the rule for the	- Use a calculator to work with	trapezium.	- Find the mean
Dividing Fractions	discrete data.	$m{n}$ th term of a linear	numbers in standard form.	- Investigate the area of a	from a grouped
	- Represent continuous	sequence.	- Understand and use negative indices.	circle	frequency table.
-Represent	data grouped into equal		- Understand and use fractional	- Calculate the area of a	- Identify outliers.
multiplication of	classes.	Unit 9: Indices	indices.	circle and parts of a circle	- Compare
fractions.	- Represent data in two-			without a calculator.	distributions using
 Multiply a fraction by 	way tables.	- Adding and subtracting	Unit 12: Number sense	- Calculate the area of a	averages and the
an integer.		expressions with		circle and parts of a circle	range.
- Find the product of a	<u>Unit 6: Tables &</u>	indices.	- Round numbers to powers of 10, and	with a calculator.	
pair of unit fractions.	<u>Probability</u>	 Simplifying algebraic 	1 significant figure.	- Calculate the perimeter	
 Find the product of a 		expressions by	- Round numbers to a given number of	and area of compound	
pair of any fractions.	- Construct sample spaces	multiplying indices.	decimal places.	shapes.	
- Divide an integer by a	for 1 or more events.	 Simplifying algebraic 	- Estimate the answer to a calculation.		
fraction.	- Find probabilities from a	expressions by dividing	 Understand and use error interval 	Unit 15: Line symmetry and	
- Divide a fraction by a	sample space.	indices.	notation.	<u>reflection</u>	
unit fraction	- Find probabilities from	-Using the addition law	 Calculate using the order of 		
 Understand and use 	two-way tables.	for indices.	operations.	- Recognise line symmetry.	
the reciprocal.	- Find probabilities from	-Using the addition and	- Calculate with money.	- Reflect a shape in a	
- Divide any pair of	Venn diagrams.	subtraction law for	- Covert metric measures of length.	horizontal or vertical line.	
fractions.	- Use the product rule for	indices.	 Convert metric units of weight and 	- Reflect a shape in a	
	finding the total number	 Exploring powers of 	capacity.	diagonal line.	
	of possible outcomes.	powers.	- Convert metric units of area.		
			- Convert metric units of volume.		
			 Solve problems involving time and 		
			the calendar.		