

Term 1		Term 2	Term 3
PRIOR LEARNING	<ul> <li>From KS2 pupils should have learnt:</li> <li>Measuring.</li> <li>Lines and angles.</li> <li>From Year 7 pupils should have learnt:</li> <li>Place value.</li> <li>Vectors on a number line.</li> <li>Equality &amp; inverse operations.</li> <li>Solving equations.</li> <li>Solving equations.</li> <li>Simplifying expressions.</li> <li>Expanding brackets.</li> <li>Multiplicative reasoning.</li> <li>Fractions.</li> <li>Double number lines and ratio tables.</li> <li>Percentages.</li> </ul>	<ul> <li>From KS2 pupils should have learnt:</li> <li>Measuring and drawing angles.</li> <li>Area of a rectangle.</li> <li>Bar charts and pictograms.</li> <li>Perimeter.</li> </ul> From Year 7 and Year 8 term 1, pupils should have learnt: <ul> <li>Basic angle facts.</li> <li>Median.</li> <li>Mean.</li> <li>Range.</li> <li>Area of rectilinear shapes.</li> <li>Types of polygons.</li> <li>Multiplication and division; multiples and factors.</li> <li>Writing values as a fraction; equivalent fractions.</li> <li>Ratio tables.</li> </ul>	<ul> <li>From Year 7, Year 8 term 1 and 2, pupils should have learnt:</li> <li>Arithmetic strategies.</li> <li>Order of operations.</li> <li>Negative numbers.</li> <li>Algebraic expressions.</li> <li>Solving equations.</li> <li>Number lines.</li> <li>Substitution.</li> <li>Writing expressions, equations and formulae.</li> <li>Number lines.</li> <li>Reading tables.</li> <li>Interpreting graphs and charts.</li> <li>Mean.</li> <li>Arithmetic.</li> <li>Solving linear equations.</li> <li>Formulae.</li> <li>Linear graphs.</li> </ul>



	<u>Geometry/ Measure unit 1 -</u>	Geometry/Measure unit 2 -	<u>Algebra unit 5 -</u>
	Using a protractor to measure angles. Labelling	Naming, labelling and recognising the features of triangles,	Evaluating expressions and formulae by substitution.
	angles correctly, type of angles.	quadrilaterals (including sum of angles).	Writing formulae in words and letters, including SDT/DMV/PFA.
	Estimating angles.	Naming and recognising the features of other polygons,	Generating sequences from formulae.
	Construction.	including interior angles increasing by 180.	Rearranging linear and non-linear formulae.
	Simple loci.	Angles on a straight line, around a point, vertically	
		opposite.	Algebra unit 6 -
	<u>Algebra unit 3 –</u>	Angles in parallel lines (alternate, corresponding,	Plotting 2D coordinates in four quadrants.
	Difference between identity and equations.	cointerior).	Introduction to two-dimensional vectors.
	Expanding a single bracket.		Finding the midpoint of a line segment.
	Factorising into a single bracket.	<u>Statistic/Probability unit 1 -</u>	Expressing number relationships algebraically and graphically, as a means of
	Expanding two simple binomials and the	The data handling cycle.	picturing the relationship.
	difference of two squares.	Bar charts, pictograms, pie charts.	Plotting quadratic number relationships on a Cartesian grid.
	Writing more complex algebraic expressions.	Ungrouped and grouped frequency tables.	Reading values of variables from a graph (including quadratic, piecewise
		Vertical line, stem and leaf.	linear, exponential and reciprocal graphs).
	<u>Algebra unit 4 -</u>	Ungrouped data - mean, mode and median, from lists and	Drawing and recognising graphs of y=n and x=n.
	Understanding equality and balancing.	from a frequency table.	Finding integer gradients.
3	Simple one-step solutions.	Measures of spread - range, interquartile range, outliers (by	Use the gradient and y-intercept of a line to write the equation in the form y
פ	Two-step solutions.	sight).	= mx+c.
	Collecting like terms.	Compare data sets through graphs, central tendency and	Identify parallel lines from their equations.
S I	Solving equations with the unknown on both	spread. Selecting the best graph for the job. Know how	
Ž	sides, simple equations with the unknown in the	graphs can mislead.	Statistic/Probability unit 2 -
×	denominator.		Scatter graphs.
	Applications and problems, including forming	<u>Geometry/Measure unit 3 –</u>	Interpret and construct tables and line graphs for time series data.
	and solving equations in a geometric or "real-	Bearings.	
	life" context.	Defining area, counting squares, rectilinear area.	<u>Algebra unit 7 -</u>
		Area of triangles and quadrilaterals (incl. kite,	Generate terms of a sequence.
i	<u>Number unit 10 -</u>	parallelogram, trapezium).	Find and use the nth term of an arithmetic (linear) sequence.
	Direct and Inverse proportion - use double	Area of a circle, always give answers in exact form and	Recognise common sequences (triangular numbers, square numbers, cube
	number line and can be connected to other	rounded.	numbers, Fibonacci-style sequences).
	known representations.	More complex areas of compound shapes, problems	
	Comparing quantities (value for money,	involving area.	
	exchange rate).	Scale drawings.	
	Scaling up/down - recipes, shapes (simple		
	enlargements), etc, use scaling diagram to		
	represent and connect to other known		
	representations.		







	After each unit pupils complete a short assessment based on each bullet point from above. The test is split into 3 parts. Part 1 - skill questions and key definitions/literacy. Part 2 - more difficult reasoning questions. Part 3 - problem solving questions which also link to prior knowledge from other units. Pupils also sit two larger assessments; one is at the halfway point for the year and the other is during whole school exam week in June.					
ASSESSMENT	<ul> <li>Assessment 1</li> <li>Solving problems with time accurately and by estimating.</li> <li>Approximation.</li> <li>Error intervals.</li> <li>Truncation.</li> <li>Algebraic notation.</li> <li>Collecting like terms.</li> <li>Simplifying indices.</li> <li>Writing algebraic expressions</li> <li>Points, lines, rays and segments, using a ruler to measure lines, labelling segments correctly.</li> <li>Using a protractor to measure angles, labelling angles correctly, type of angles, and estimating angles.</li> <li>Using a compass to draw circles and arcs; construct and equilateral triangle and a hexagon (60/120-degree angles).</li> <li>Constructing triangles given SSS, SAS, ASA.</li> <li>Constructing a perpendicular bisector.</li> <li>Constructing 30, 45, 90 angles.</li> <li>Simple loci.</li> <li>Expanding two simple bracket.</li> <li>Simplifying expressions.</li> <li>Factorising into a single bracket.</li> <li>Expanding two simple binomials and the difference of two squares.</li> <li>Writing more complex algebraic expressions.</li> <li>Simple one-step solutions (four rules).</li> <li>Two-step solutions (four rules).</li> <li>Two-step solutions (four rules).</li> <li>Simple equations with the unknown on both sides.</li> <li>Simple equations with the unknown in the denominator.</li> <li>Forming and solving equations in a geometric or "real-life" context.</li> <li>Direct and inverse proportion.</li> <li>Comparing quantities (value for money, exchange rates).</li> <li>Scaling up/down - recipes, shapes (simple enlargements).</li> <li>Percentage increase and decrease, decimal multipliers.</li> <li>Finding a percentage change.</li> </ul>	Assessment 2         • Naming, labelling and recognising the features of triangles (including sum of angles).         • Naming and recognising the features of other polygons, including interior angles increasing by 180.         • Angles on a straight line, around a point, vertically opposite.         • Angles in parallel lines (alternate, corresponding, co-interior).         • Bearings.         • The data handling cycle.         • Ungrouped and grouped frequency tables.         • Vertical line, bar charts, pic charts, pictograms, stem and leaf.         • Measures of spread - range, interquartile range, outliers.         • Misleading graphs.         • Area of triangles and quadrilaterals (incl. kite, parallelogram, trapezium).         • Area of circle, always give answers in exact form and rounded.         • Areas of compound shapes.         • Fractions and ratios.         • Unit ratios, applications to scale drawings and maps.         • Fractions and ratios.         • Evaluating expressions and formulae by substitution, including inputs and outputs.         • Generating sequences from formulae.         • Rearranging linear formulae.				