Curriculum Overview Template

Focus	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Торіс	Numbers and the number system. Place value and adding and subtracting.	Decimals, multiplying and dividing, and area.	The mean, converting units, angles	Shape and space: triangles, quadrilaterals and symmetry	Fractions, fractions of amounts, order of operations	Percentages, fraction/decimal /percentage conversions, working with data
Key concepts/ideas	 Understand place value to compare and order numbers including decimals Use approximation and rounding in problem solving Understand and solve problems involving addition and subtraction including perimeter 	 Multiply and divide multi- digit numbers including decimals Find and understand factors and multiples, including LCMs and HCFs Understand and apply the formulae for area of a rectangle, triangle and parallelogram 	 Mean Average Accurately draw, measure, and identify types of angles Use facts to solve problems involving unknown angles on a line and at a point Convert between units 	 Understand and use properties of triangles and quadrilaterals Symmetry and tessellation 	 Understand and use fraction notation in a variety of contexts Compare and order fractions, decimals and mixed numbers Multiply and divide with fractions Carry out combined calculations using all four operations with brackets 	 Understand and use percentage including percentage increase and decrease Draw, read and interpret statistical diagrams, including pie charts
Key skills	Unit 1: Place Value Read and write whole numbers in figures and words Multiply, divide and round any whole number by 10, 100, 1000, or 10 000 Learn about different bases Unit 2 and 3: Addition and Subtraction Use mental strategies Add and subtract using formal algorithms Calculate and work with perimeters Model solve word problems including using bar models Adding and subtracting in different bases Unit 4: Addition and Subtraction of decimals	Unit 5,6,7: Multiplication and Division Use multiplication facts to solve mental calculations Use the terms 'product', 'multiple' and 'LCM' Understand and use the column method to multiply integers and decimals Divide whole numbers and decimals by whole numbers Use the terms 'quotient', 'remainder', 'factor', 'HCF' Represent multiplication word problems using bar models Find the area of 2-D shapes	Unit 8: Mean • Find the mean average, interpreting average as "total amount ÷ number of items" and solve word problems involving average Unit 9: Working with units • Record and order measurements using decimal notation • Estimate and/or measure: o length in kilometres (km) /metres (m)/ centimetres (cm)/ millimetres (mm)	Unit 11 and 12: Triangles and Quadrilaterals • Classify triangles and quadrilaterals according to their properties • Use a ruler and protractor to construct triangles and quadrilaterals from given data • Know and use the fact that the sum of interior angles of a triangle is 180° • know and use the fact that the interior angles of a quadrilateral sum to 360° • Solve problems involving	Unit 14: Understand and use fractions • Repres ent fractions using area diagrams, bar models and number lines • Recogni se and name equivalent fractions • Convert fractions to decimals • Convert terminating decimals to fractions in their simplest form • Convert between mixed numbers and	Unit 20: Percentages Understand percentage as a fractional operator with denominator of 100 Express a part of a whole as a percentage Convert between fractions, decimals and percentages Find fractions and percentages of given quantities Find the whole given a part and the percentage Increasing and decreasing by a percentage Unit 21: Handling data

Key terms/vocab	 Understand decimal notation and place values Convert between decimals and fractions where the denominator is a factor of 10 or 100 Rounding decimals Use correctly the symbols <, > etc. and the associated language to order a set of decimals Multiply and divide decimals by 10, 100, 1000, or 10 000 Solve word problems involving the addition and subtraction of money in decimal notation Use written methods in column format for addition and subtraction of decimals Extend existing mental calculation to include decimals Calculate the perimeter of rectangles, squares and rectilinear figures 	 Solve problems involving length, perimeter and area Estimate answers in calculations and check that results are reasonable Measure time, calculate with time and solve time word problems 	 mass in kilograms (kg) /grams (g) volume of liquid in litres (l) / millilitres (ml) Unit 10: Angles Draw and measure acute and obtuse angles reliably to the nearest degree Estimate the size of any given angle Recognise acute, right, obtuse and reflex angles Know and use the fact that the angles round a point total 360°, that angles on a straight line total 180°, and that vertically opposite angles are equal 	Coordinates in the first quadrant Unit 13: Symmetry and Tessellation • Identify lines of symmetry in any shape • Identify the order of rotational symmetry in any shape • Create shapes given details of their symmetries • Investigation and create tessellations	U
	Commutativity, Associativity, Perimeter, Adjusting, Compensating, Tenths, Hundredths, Thousandths	common multiple, Quotient, Remainder, Factor, Highest Common Factor	Millimetres, Centimetres, Metres, Kilometres, Grams, Kilograms, Litres, Millilitres,	Equilateral, Isosceles, Interior, Exterior, Symmetry,	\

improper	Understand
fractions	the difference
Compar	between types of
e and order	data
numbers	Construct
Convert	and interpret
simple fractions	o Tabl
and decimals to	es (including
percentages	tally and two
Express	way)
one quantity as	∘ ́ Bar
a fraction of	charts
another	(including
another	· •
	comparative
Unit 15: Fractions of	and
amounts	composite)
 Find a 	o Pict
	ograms
fraction of a set	o Line
of objects or	graphs
quantity	Read and
 Find the 	interpret pie charts
whole given a	
fraction	Draw pie
	charts from raw
	data
Unit 16: Multiplying and	 Explore
Dividing decimals	misleading graphical
Multiply	representations
a whole number	·
or fraction by a	
whole number	
or fraction	
Multiply	
a mixed	
number and a	
whole number	
Divide a	
whole number	
or proper	
fraction by a	
whole number	
or proper	
fraction	
Unit 17: Order of	
operations	
Carry	
out combined	
operations	
involving all four	
operations	
Underst	
and and use	
brackets	
• Use	
simple index	
notation	
•	
Equivalent, Terminating,	Increasing, Decreasing,
Mixed numbers,	Multiplier, Pictograms, Bar
Improper fractions,	charts (comparative and
Vinculum, Numerator,	composite), Line graphs, Pie

			Acute, Obtuse, Reflex, Mean	Tessellation, Rotational	Denominator, BODMAS,	Charts, Raw Data,
			Average	Symmetry	Index notation, Powers	Hypothesis, Qualitative,
						Quantitative, Discrete,
						Continuous, Primary,
						Secondary
Independent learning /	For more support and lots of practice	For more support and lots of	For more support and lots of	For more support and lots of	For more support and	For more support and lots of
wider reading	questions go to www.mymaths.co.uk	practice questions go to	practice questions go to	practice questions go to	lots of practice	practice questions go to
		www.mymaths.co.uk	www.mymaths.co.uk	www.mymaths.co.uk	questions go to	www.mymaths.co.uk
					www.mymaths.co.uk	
Assessment	Initial test to test prior knowledge	Test on all topics covered so far	Test on all topics covered so		Test on all topics	Test on all topics covered
			far		covered so far	this year
Careers links	Finance, Biologist, Chemist, Physicist, Business	Finance, Biologist, Chemist,	Finance, Biologist, Chemist,	Finance, Biologist, Chemist,	Finance, Biologist,	Finance, Biologist, Chemist,
	Analyst, Forecaster, Computer scientist	Physicist, Business Analyst,	Physicist, Business Analyst,	Physicist, Business Analyst,	Chemist, Physicist,	Physicist, Business Analyst,
		Forecaster, Computer scientist	Forecaster, Computer	Forecaster, Computer	Business Analyst,	Forecaster, Computer
			scientist	scientist	Forecaster, Computer	scientist
					scientist	