White Rose Scheme for mixed years 5/6 planning used as basis to ensure coverage: re-organised and tailored for Wreningham requirements.

	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7		Wk 8	Wk 9	Wk 10	Wk 11	Wk 12	Wk 13	Wk14
Autumn 5&6	Place Va	alue		Four	Operati	ons				Frac	tions		Assmnt	R E S	Area
Year 3 used for support group	Place Va	llue	Addition and	d Subtracti	on				Multip	olication a	nd Divis	ion	Assmnt	R E S	Conso lidatio n
	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7		Wk 8	Wk 9	Wk 10	Wk 11	Wk 12		
Spring 5&6	Perimete Volume	er Area	Measureme Converting	ent-	Decimand Percer			Year 6 Algebi Year 5 Decim	ra 5	Stats	Coor ds	Shape – pro angles	perties		
Year 3 used for support group	Length a perimete		Measureme money	ent and	Plac e Valu e reca p		Fraction	ons		Statistic Coords	s then	Properties o	f shape		
	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7		Wk 8	Wk 9	Wk 10	Wk 11	Wk 12	Wk 13	Wk14
Summer 5&6	Ratio Y6 Fractio ns Y5	Fractions	Measure ment Perimeter , area volume	SATS Assmnt	Year 6 Algebr Year 5 Algebr	a 2 Intro		Statist Recor drawir interpr	ding, ng,	Fraction Decima Percent	ls and	Negative Numbers	Converti ng numbers	Prob Solv proje	ring
Year 3 used for support group	Fractions	5		Time				Place conso on – reason focus	lidati	Multiplid and divi recap		Mass and ca	apacity		erations solidatio

Further details of objectives covered can be found in table below.

Maths Area	National Curriculum Requirements	National Curriculum		
	Year 5	Requirements Year 6		
Number and Place Value	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	read write, order and compare numbers up to 10,000,000 and determine the value of each digit		
	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	use negative numbers in context, and calculate intervals across 0 round any whole number to a		
	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers	required degree of accuracy solve problems that require		
	through zero	answers to be rounded to specifies degrees of accuracy.		
	round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	solve number and practical problems that involve all of the above.		
	solve number problems and practical problems that involve all of the above			
	read Roman numerals to 1000 (M) and recognise years written in Roman numerals.			
Multiplication and Division	See ongoing number objectives			
Measuring and calculating through shape	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	compare and classify geometric shapes based on their properties and sizes and find unknown		
	calculate and compare the area of squares and rectangles including using standard units, square	angles in any triangles, quadrilaterals, and regular polygons		
	centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes	recognise that shapes with the same area can have different perimeters and vice versa		
	use the properties of rectangles to deduce related facts and missing lengths and angles	recognise when it is possible to use formulae for area and volume of shapes		
	distinguish between regular and irregular polygons based on reasoning about equal sides and angles	calculate the area of parallelograms and triangles.		

Maths Area	National Curriculum Requirements Year 5	National Curriculum Requirements Year 6	
Fractions, decimals and percentages	compare and order fractions whose denominators are all multiples of the same number identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5+4/5 = 6/5 or 1 1/5	use common factors to simplify fractions; use common multiples to express fractions in the same denomination  compare and order fractions, including fractions > 1  identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places  recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	
Addition and Subtraction	See ongoing number objective	/es	
Statistics	solve comparison, sum and difference problems using information presented in a line graph  complete, read and interpret information in tables, including timetables.  solve problems involving converting between units of time	interpret and construct pie charts and line graphs and use these to solve problems  calculate and interpret the mean as an average.	

Maths Area	National Curriculum Requirements Year 5	National Curriculum Requirements Year 6
Fractions, decimals and percentages	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents  round decimals with two decimal places to the nearest whole number and to one decimal place  read, write, order and compare numbers with up to three decimal places  solve problems involving number up to three decimal places  recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal  solve problems which require knowing percentage and decimal equivalents of ¹/2 , ¼, ¹/5, ²/5, ⁴/5 and those fractions with a denominator of a multiple of 10 or 25.	As for Yr 5
Multiplication and Division	See ongoing number objective	/es
Geometry	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles  draw given angles, and measure them in degrees (°)  Be able to identify: angles at a point and one whole turn (total 360°) angles at a point on a straight line and ½ a turn (total 180°) other multiples of 90°	recognise angles where they meet at a point, are on a straight line or vertically opposite, and find missing angles.

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Maths A	Area	National Curriculum Requirements Year 5	National Curriculum Requirements Year 6	
	ctions, decimals and centages	add and subtract fractions with the same denominator and denominators that are multiples of the same number  multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams  read and write decimal numbers as fractions [for example, 0.71 = 71/100]	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions  multiply simple pairs of proper fractions, writing the answer in its simplest form divide proper fractions by whole numbers  associate a fraction with division and calculate decimal fraction equivalents	
	ition and traction	See ongoing number objective	/es	
	metry: position and ction	identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.	describe positions on the full co- ordinate grid (all four quadrants)  draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes.	

Maths Area	National Curriculum Requirements	National Curriculum	
	Year 5	Requirements Year 6	
Calculations(Yr 5)	See ongoing number objectives	use simple formulae	
Algebra Ratio and		generate and describe linear number sequences	
Proportion (Yr 6)		express missing number problems algebraically	
		find pairs of numbers that satisfy an equation with two unknowns	
		enumerate possibilities of combinations of two variables	
		solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts	
		solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison	
		solve problems involving similar shapes where the scale factor is known or can be found	
		solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	

Maths Area	National Curriculum Requirements	National Curriculum	
	Year 5	Requirements Year 6	
Geometry: properties of shape	identify 3-D shapes, including cubes and other cuboids, from 2-D representations  estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]  solve problems involving measure (length, mass, volume) using decimal notation, including scaling and convert between different units of metric measure (centimetre and millimetre, litre and millilitre)	recognise, describe and build simple 3-D shapes, including making nets  draw 2-D shapes using given dimensions and angles  calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³].  illustrate and name parts circles including radius, diameter, and circumference and know that the diameter is twice the radius	

Maths Area	National Curriculum Requirements Year 5
Measurement	use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.
	convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)
	understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
Number	Multiplication and Division identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
	know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
	establish whether a number up to 100 is prime and recall prime numbers up to 19
	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
	multiply and divide numbers mentally drawing upon known facts
	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes
	solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
	solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.
	Addition and Subtraction add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
	add and subtract numbers mentally with increasingly large numbers use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Maths Area	National Curriculum Requirements Year 6
Measurement	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
	use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places
	convert between miles and kilometres
Number: Addition Subtraction	multiply multi digit numbers up to 4 digit by 2 digit whole number using the formal written method of long multiplication
Multiplication Division	divide numbers up to 4 digit by a 2 digit whole number using the formal written methods of long division, and interpret remainders as whole number remainders, fractions or by rounding as appropriate for the context
	divide numbers up to 4 digit by a 2 digit whole number using the formal written methods of short division where appropriate, interpreting remainders according to the context
	perform mental calculations, including with mixed operations and large numbers.
	identify common factors, common multiples and prime numbers
	use their knowledge of the order of operations to carry out calculations involving the four operations
	solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why
	solve problems using addition, subtraction, multiplication and division
	use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
Algebra	use simple formulae
	generate and describe linear number sequences
	express missing number problems algebraically
	find pairs of numbers that satisfy an equation with two unknowns
	enumerate possibilities of combinations of two variables
Ratio and Proportion	solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts
	solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
	solve problems involving similar shapes where the scale factor is known or can be found
	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
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