Primary Maths Curriculum Map

The objectives in red are matched with the NCETM's Ready to Progress criteria **plus** extra objectives chosen by extensive research and fitting for our school curriculum. These form the crucial objectives for ALL children to secure as there is evidence that these objectives will enable the children to progress into the next year and beyond in their mathematical journey.

The objectives in green are non-statutory in the national curriculum guidance but are included in the WRH planning schemes.

	Autumn	Spring	Summer
Year 5	Place Value	Multiplication and Division	Geometry – Properties of Shapes
	Read, write, order and compare numbers to	Multiply and divide numbers mentally drawing upon	Identify 3D shapes, including cubes and other
	at least 1000000 and determine the value of	known facts.	cuboids, from 2D representations.
	each digit.		
		Multiply numbers up to 4 digits by a one or two digit	Use the properties of rectangles to deduce
	Count forwards or backwards in steps of	number using a formal written method, including long	related facts and find missing lengths and angles.
	powers of 10 for any given number up to	multiplication for 2 digit numbers.	
	1000000.		Distinguish between regular and irregular
		Divide numbers up to 4 digits by a one digit number	polygons based on reasoning about equal sides
	Round any number up to 1000000 to the	using the formal written method of short division and	and angles.
	nearest 10, 100, 1000, 10000 and 100000	interpret remainders appropriately for the context.	
			Know angles are measured in degrees: estimate
	Solve number problems and practical	Solve problems involving addition and subtraction,	and compare acute, obtuse and reflex angles.
	problems that involve all of the above.	multiplication and division and a combination of	
		these, including understanding the use of the equals	Draw given angles, and measure them in degrees
	Read Roman numerals to 1000 (M) and	sign.	(o)
	recognise years written in Roman numerals.		
		Fractions	Identify: angles at a point and one whole turn
	Addition and Subtraction	Multiply proper fractions and mixed numbers by	(total 360o), angles at a point on a straight line
	Add and subtract numbers mentally with	whole numbers, supported by materials and diagrams.	and $\frac{1}{2}$ a turn (total 180o) other multiples of 90o
	increasingly large numbers.		
		Read and write decimal numbers as fractions [for	<u>Geometry – Position and Direction</u>
	Add and subtract whole numbers with more	example 0.71 = 71/100]	Identify, describe and represent the position of a
	than 4 digits, including using formal written		shape following a reflection or translation, using
	methods (columnar addition and	Solve problems involving multiplication and division,	the appropriate language, and know that the
	subtraction)	including scaling by simple fractions and problems	shape has not changed.
		involving simple rates.	
	Use rounding to check answers to		Decimals
	calculations and determine, in the context of	Perimeter and Area	Solve problems involving number up to three
	a problem, levels of accuracy.		decimal places.

Solvoo		Measure and calculate the perimeter of composite	
Solve a	ddition and subtraction multi-step	rectilinear shapes in cm and m.	Multiply and divide whole numbers and those
probler	ms in contexts, deciding which		involving decimals by 10, 100 and 1000
operati	ions and methods to use and why.	Calculate and compare the area of rectangles	
		(including squares), and including using standard	Use all four operations to solve problems
		units, cm2,m2 estimate the area of irregular shapes.	involving measure [for example, length, mass,
			volume, money] using decimal notation, including
-	lication and Division		scaling.
	ly and divide numbers mentally	Decimals and Percentages	
drawing	g upon known facts.	Read, write, order and compare numbers with up to	<u>Number -</u> Interpret negative numbers in context,
		three decimal places.	count forwards and backwards with positive and
-	ly and divide whole numbers by 10,		negative whole numbers including through zero.
100 and	d 1000.	Recognise and use thousandths and relate them to	
L.L	and the second for the second second second	tenths, hundredths and decimal equivalents.	Measurement – Converting Units
-	y multiples and factors, including	Decide de since le suith true de since l'ale ses to the	Convert between different units of metric
	all factor pairs of a number, and on factors of two numbers.	Round decimals with two decimal places to the nearest whole number and to one decimal place.	measure [for example, km and m; cm and m; cm
commo	on factors of two numbers.	nearest whole number and to one decimal place.	and mm; g and kg; I and ml]
Recogn	nise and use square numbers and cube	Solve problems involving number up to three decimal	Understand and use approximate equivalences
-	ers and the notation for squared (2)	places.	between metric units and common imperial units
and cut			such as inches, pounds and pints.
		Recognise the per cent symbol (%) and understand	
Solve p	problems involving multiplication and	that per cent relates to 'number of parts per	Solve problems involving converting between
divisior	n including using their knowledge of	hundred', and write percentages as a fraction with	units of time.
factors	and multiples, squares and cubes.	denominator 100, and as a decimal.	
			<u>Measurement – Volume</u>
	and use the vocabulary of prime	Solve problems which require knowing percentage	Estimate volume [for example using 1cm3 blocks
	rs, prime factors and composite (non-	and decimal equivalents of ½ ¼ ¾ 1/5 2/5 4/5 and	to build cuboids (including cubes)] and capacity
prime)	numbers.	those fractions with a denominator of a multiple of 10	[for example, using water]
		or 25.	
	sh whether a number up to	Chatistics	Use all four operations to solve problems
100 is p 19.	prime and recall prime numbers up to	Statistics	involving measure.
19.		Solve comparison, sum and difference problems using information presented in a line graph.	
Fractio	ns		
	re and order fractions whose	Complete, read and interpret information in tables	
	inators are multiples of the same	including timetables.	
numbe	•		

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 = 1 whole and 1/5]	
Add and subtract fractions with the same denominator and denominators that are	
multiples of the same number.	