Year 3 Primary Curriculum Programme of Study for Mathematics (Draft)

NUMBER: Pupils should be taught to

Number, place value and rounding

	read and write numbers to at least 1000 in numerals and in words	recognise the place value of each digit in a 3-digit number (hundreds, tens, ones)
	compare and order numbers up to 1000	count in multiples of 2, 3, 4, 5, 8, 10, 50 and 100 from 0; give 10 or 100 more or less than a given number

Addition and subtraction

	add and subtract numbers with up to 3 digits, including using columnar addition and subtraction	accurately add and subtract numbers mentally including: pairs of one- and 2-digit numbers; 3-digit numbers and ones; 3-digit numbers and tens; 3-digit numbers and hundreds
	solve word problems including missing number problems, using number facts, place value, and more complex addition and subtraction	

Multiplication and division

	recall and use multiplication and division facts for the 2, 3, 4, 5, 8 and 10 multiplication tables	write and calculate mathematical statements for multiplication and division within the multiplication tables; and for 2-digit numbers x 1-digit numbers, using mental and written methods
	solve word problems involving the four operations, including missing number problems	

Fractions

	identify, name and write unit fractions up to 1/12	compare and order unit fractions and fractions with the same denominators
	recognise fractions which are equivalent to 1 and pairs of fractions that add up to 1	perform calculations with addition and subtraction of fractions with the same denominator within one whole (e.g. 5/7 + 1/7 = 6/7)
	count up and down in tenths; recognise that tenths arise in dividing an object into tenths and in dividing single digit numbers or quantities by ten	

GEOMETRY AND MEASURES: Pupils should be taught to

Properties of shapes

	make 2-D and 3-D shapes; recognise in different orientations; and describe with increasing accuracy	recognise angles as a property of shape and associate angle as an amount of turning
	identify right angles, recognise that two right-angles make a half-turn and four a complete turn; identify whether angles are greater or less than a right angle	identify horizontal, vertical, perpendicular, parallel and curved lines
	use a compass to draw circles and arcs with a given radius	

Measures

	recognise and use full names and abbreviations for metric units of measure	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml); and time (hours/minutes/seconds)
	measure the perimeter of simple 2-D shapes	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12 hour and 24 hour digital clocks
	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as am/pm, morning, afternoon, noon and midnight	know the number of seconds in a minute and the number of days in each month, year and leap year
	compare durations of events, for example to calculate the time taken up by particular events or tasks	add and subtract amounts of money to give change, using both £ and p

Data

	read, interpret and present data using pictograms and bar charts with scales	solve problems using information presented in pictograms, bar charts and tables