			Working Within	Mastery	Greater Depth
Key: Date the box to show what level each child has achieved at the end of each objective					
Children can demonstrate their methods for solving mathematical problems using concrete apparatus or pictorial representations.					
Number	1 KPI	**Read, write, order, compare and know place value of numbers to at least 1 000 000**			
	2 KPI	**Add and subtract numbers mentally with increasingly large numbers and whole numbers with more than 4 digits, including using formal written methods (column addition and subtraction).**			
	3 KPI	**Multiply / divide numbers mentally using known facts and use formal written methods for 4 digit x 1 or 2 digit, and 4 digit ÷ 1 digit short division (interpreting remainders in context).**			
	4 KPI	**Compare and order, add and subtract fractions whose denominators are the same or are all multiples of the same number.**			
	5 KPI	**Convert between decimal numbers, fractions and percentages and find percentages and fractions of quantities including solving problems.**			
	6	Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.			
	7	Round decimals with two decimal places to the nearest whole number and to one decimal place and use rounding to check answers in the context of a problem.			
	8	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.			
	9	Solve problems involving addition, subtraction, multiplication and division and a combination of these, including using knowledge of factors and multiples, squares and cubes, including multistep problems.			
	10	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.			
	11	Interpret negative numbers in context, count forwards and backwards with + or - whole numbers, including through zero, in steps of powers of 10 for any given number up to 1000 000.			
	12	Recognise and convert between mixed numbers and improper fractions (for example, $\frac{6}{5} = 1\frac{1}{5}$) and multiply mixed numbers and proper fractions by a whole number (supported by materials and diagrams).			
	13	Read, write, order and compare numbers with up to three decimal places and solve problems involving up to 3 decimal places (Example, $0.71 = \frac{71}{100} = 71\%$).			
	14	Can identify multiples and factors, find factor pairs of a number, common factors of two numbers and use prime numbers, prime factors and composite (non-prime) numbers and establish whether a number up to 100 is prime and recall prime numbers up to 19. Recognise and use square numbers and cube numbers, and the notation for squared (2^2) and cubed (2^3).			
	15	Read Roman Numerals to 1000 (M) and recognise years written in Roman Numerals.			
Measures	16	Convert between different units of metric measure and understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.			
	17	Measure and calculate the perimeter of composite rectilinear shapes (cm/m) and calculate and compare the area of rectangles (including squares, cm², m²) and estimate area of irregular shapes.			
	18	Estimate volume (for example, using 1 cm³ blocks to build cuboids (including cubes) and capacity (for example, using water)).			
	19	Use all four operations to solve problems involving measure (for example, length, mass, volume, money, time) using decimal notation, including scaling and conversions, including converting units for calculation.			
Geometry	20	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations (e.g. nets).			
	21	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.			
	22	Estimate, compare, measure and draw acute, obtuse and reflex angles.			
	23	Use the properties of rectangles and knowledge of angles at a point (360°) or on a straight line (180°) to deduce related facts and find missing lengths and angles.			
	24	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.			
S	25	Complete, read and interpret information in tables, including timetables, and line graphs to solve comparison, sum and difference problems.			