			Year Six			
Number Place Value		1	Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.			
		2	Round any whole number to a required degree of accuracy.			
		3	Use negative numbers in context, and calculate intervals across zero.			
		4	Solve number problems and practical problems that involve all of the above.			
Number Addition, Subtraction, Multiplication & Division		5	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.			
		6	Divide numbers up to 4 digits by a two-digit whole number using the efficient written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.			
		7	Divide numbers up to 4 digits by a two-digit whole number using the efficient written method of short division where appropriate, interpreting reminders.			
		8	Perform mental calculations, including with mixed operations and large numbers.			
		9	Identify common factors, common multiples and prime numbers.			
		10	Use their knowledge of the order of operations to carry out calculations involving the four operations.			
		11	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.			
		12	Solve problems involving addition, subtraction, multiplication and division.			
		13	Use estimation to check accuracy of answer.			
Number Fractions (including decimals and percentages)		14	Use common factors to simplify fractions.			
		15	Compare and order fractions, including fractions >1.			
		16	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.			
		17	Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. 1/4 × 1/2 = 1/8).			
		18	Divide proper fractions by whole numbers (e.g. 1/3 ÷ 2 = 1/6).			
		19	Convert decimals to fractions and vice versa.			
		20	Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places.			
		21	Multiply one-digit numbers with up to two decimal places by whole numbers.			
		22	Use written division methods in cases where the answer has up to two decimal places.			
		23	Solve problems which require answers to be rounded to specified degrees of accuracy.			
		24	Recall equivalent fractions , decimals and percentages.			
Ratio and Proportion		25	Solve ratio problems using multiplication and division facts.			
		26	Solve problems involving percentages (e.g. 15% of …)			
		27	Solve problems involving scale.			
		28	Solve problems involving unequal grouping using fraction knowledge.			
Algebra		29	Use simple formulae.			
		30	Generate and describe linear number sequences.			
		31	Express missing number problems algebraically.			
		32	Find pairs of numbers that satisfy number sentences involving two unknowns.			
		33	Enumerate possibilities of combinations of two variables.			
Measurement		34	Solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate.			
		35	Use, read, write and convert units of measure (length, mass, volume and time), using decimal notation to three decimal places.			

	36	Convert between miles and kilometres.			
	37	Recognise that shapes with the same areas can have different perimeters and vice versa.			
	38	Calculate the area of parallelograms and triangles.			
	39	Recognise when it is possible to use formulae for area and volume of shapes.			
	40	Calculate, estimate and compare volume of cubes and cuboids (using cm3, m3, mm3, km3).			
Geometry Properties of shapes	41	Draw 2D shapes using given angles and dimensions.			
	42	Recognise, describe and build simple 3-D shapes, including making nets.			
	43	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals.			
	44	Illustrate and name parts of circles, including radius, diameter and circumference.			
	45	Find unknown angles where they meet at a point, are on a straight line, and are vertically opposite.			
Geometry Position and direction	46	Describe positions on the full coordinate grid (all four quadrants).			
	47	Translate simple shapes on the coordinate plane.			
	48	Reflect shapes in the axes.			
Statistics	49	Interpret and construct pie charts and line graphs and use these to solve problems.			
	50	Calculate and interpret the mean as an average.			