Mrs Kelsall Year 6	AUTUMN TERM	SPRING TERM	SUMMER TERM
NUMBER, PLACE VALUE AND ALGEBRA	… read, write, order and compare numbers up to 10,000,000 … determine the value of each digit in numbers up to 10,000,000. … round any whole number to a required degree of accuracy … generate and describe linear number sequences … find pairs of numbers that satisfy an equation with two unknowns	… express missing number problems algebraically … use negative numbers in context and calculate intervals across zero	… use a simple formulae … enumerate possibilities of combinations of two variables
ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION	… multiply numbers up to 4 digits by a 2 digit using the formal written method … identify common factors, common multiples and prime numbers … divide numbers up to 4 digits by a 2 digit number using short division … use estimation to check answers to calculations	… solve problems involving addition, subtraction, multiplication and division … divide numbers (4 digits by a 2 digit number) using a formal written method … interpret remainders as whole number, fractions, or round, as appropriate … solve +ion and - ion multi-step problems, deciding which operations to use and why … know the order of operations to carry out calculations	… perform mental calculations, including with mixed operations & large numbers … use estimation to check, determining an appropriate degree of accuracy … identify the value of each digit to 3 decimal places and x and ÷ numbers by 10, 100 and 1000 giving answers up to 3 decimal places … multiply numbers with up to 2 decimal places by whole numbers … use written division methods in cases where the answer has up to 2 decimal places
RATIO AND PROPORTION	… solve problems involving the relative sizes of two quantities, using xion and ÷ion … solve problems involving the calculation of percentages and comparisons	… solve problems involving similar shapes where the scale factor is known or can be found … solve problems involving the use of percentage comparisons	… solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

MEASUREMENTS	… use, read, write and convert between standard units … convert measures of length, mass, volume and time using decimals up to 3dp	… recognise that shapes with the same areas can have different perimeters … convert between miles and kilometres … calculate the area of parallelograms and triangles … recognise when it is possible to use the formulae for the area of shapes	… calculate, estimate and compare volume of cubes and cuboids, using standard units. … recognise when it is possible to use the formulae for the volume of shapes. … solve problems involving the calculation and conversion of units of measure
FRACTIONS, DECIMALS AND PERCENTAGES	… use common factors and multiples to simplify fractions and find equivalents … compare and order fractions, including fractions >1	… associate a fraction with division to calculate decimal fractions equivalents … divide proper fractions by whole numbers … multiply simple pairs of proper fractions, writing the answer in the simplest form	… add and subtract fractions with different denominators and mixed numbers, using equivalent fractions … solve problems which require rounding to degrees of accuracy … recall and use equivalences between simple fractions, decimals and percentages, in different contexts
GEOMETRY	… draw 2D shapes given dimensions and angles … find unknown angles in any triangles, quadrilaterals and regular polygons … describe positions on the full co-ordinate grid (all four quadrants)	… draw and translate simple shapes and reflect them in the axis … recognise angles at a point, on a straight line, or vertically opposite, and find missing angles … illustrate and name parts of circles, including radius, diameter and circumference … know the diameter is twice the radius	… describe, recognise and build 3D shapes, including making nets … compare and classify geometric shapes based on the properties and sizes … draw and translate simple shapes, and reflect them in the axes
STATISTICS	… interpret pie charts … interpret line graphs … calculate and interpret the mean as an average	… interpret pie charts and line graphs and use these to solve problems	… construct pie charts and line graphs