Term 1 / Term 2 / Term 3 / Term 4 / Term 5 / Term 6

Number and Place Value	• Read, write, order and compare numbers up to 10 000 000 & know the value of each digit • Round any whole number to a required degree of accuracy • Use negative numbers in context & calculate intervals across zero Solve number/practical problems involving all the above.
Addition and Subtraction	See multiplication and division • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction
Multiplication and Division	• Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication • Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context • Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context • Perform mental calculations, including with mixed operations and large numbers • Identify common factors, common multiples and prime numbers • Use their knowledge of the order of operations to carry out calculations involving the four operations • Solve problems involving multiplication and division • Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
Fractions	• Use common factors to simplify fractions; use common multiples to express fractions in the same denomination • Compare and order fractions, including fractions > 1 • Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions • Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] • Divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$] • Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$] • Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places
Statistics	**Statistics** • Interpret & construct pie charts & line graphs – use to solve problems Calculate & interpret the mean as an average
Shape	**Geometry – Properties of Shape** • Draw 2D shapes using dimensions & angles • Recognise, describe & build simple 3D shapes including making nets • Compare/classify geometric shapes based on their properties & sizes • Find unknown angles in any triangles, quadrilaterals & regular polygons • Illustrate & name parts of circles including radius, diameter & circumference (know the diameter is twice the radius) • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite & find missing angles
Measuring	**Measurement** • Solve problems involving calculation & conversion of units of measure – using decimal notation up to 3 decimal places • Use, read, write & convert between standard units • Convert between miles & kilometres • Recognise that shapes with same areas can have different perimeters • Recognise when it is possible to use formulae for area & volume of shapes • Calculate area of parallelograms & triangles • Calculate, estimate & compare volume of cubes & cuboids using standard units
Position and Direction	• Describe positions on the full co-ordinate grid • Draw & translate simple shapes on the co-ordinate plane & reflect them in the axes
Algebra	• Use simple formulae • Generate and describe linear number sequences • Express missing number problems algebraically

	• Find pairs of numbers that satisfy an equation with two unknowns • Enumerate possibilities of combinations of two variables.
Ratio and Proportion	• Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts • Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison • Solve problems involving similar shapes where the scale factor is known or can be found • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.