What are the aims and intentions of this curriculum?

Term	Set 1, 2 and 3	Set 4 and 5	Assessment
Autumn 1	●Solve problems with Prime Numbers ●Solve problems with Highest Common Factor and Lowest Common Multiple ●Explore powers and roots and number patterns ●To be able to compare and order numbers ●To be able to use written methods to multiply and divide ●To be able to apply the correct order of operations	●Identify the value of each digit in numbers given to three decimal places ●multiply and divide numbers by 10, 100 and 1000 ●Use negative numbers in context ●Identify common factors, common multiples and prime numbers ●Extend written multiplication methods ●Know and use the order of operations ●Solve problems involving addition, subtraction and multiplication	Mini topic assessments after each section of work
Autumn 2	●To be able to use conventional terms and notations ●To be able to recognise line and rotational symmetry ●To be able to draw diagrams from a written description ●Investigate the properties of 3D shapes ●Know the properties of triangles and quadrilaterals ●Apply the properties of triangles and quadrilaterals to solve problems	●Develop written methods of division ●Deal with remainders when carrying out division ●Solve problems involving division ●Construct lines and angles accurately ●Know and use the mathematical language of 3D shapes ●Explore the nets of 3D shapes	Mini topic assessments after each section of work and a written assessment covering all the work completed so far.
Spring 1	●To be able to simplify expressions ●To be able to expand a single bracket ●To understand how to use function machines ●To be able to convert between fractions and percentages ●To be able to simplify a ratio ●To be able to share in a ratio	●To be able to identify properties of triangles and quadrilaterals ●To be able to use the angle sum of triangles and quadrilaterals to solve problems ●To be able to calculate the angle sums of regular polygons ●Explore the equivalence of fractions ●Apply the equivalence of fractions for comparing size ●Explore the equivalence between fractions, decimals and percentages	Mini topic assessments after each section of work
Spring 2	●To measure lines and angles accurately ●To convert between metric units of length, mass and capacity ●To apply angle rules Apply the four operations to fractions ●Apply the four operations to mixed numbers and improper fractions ●Use the multiplier method for percentages	●Apply proportional reasoning to problems with costs/recipes ●Use and understand scale factors in enlargement ●Use division and multiplication to solve grouping and sharing problems ●To measure lines and angles accurately ●To convert between metric units of length, mass and capacity ●To apply angle rules	Mini topic assessments after each section of work and a written assessment covering all the work completed so far.
Summer 1	●To solve one step equations ●To solve two step equations ●To solve three step equations ●To calculate area and perimeter of rectangles and triangles ●To calculate area of parallelograms and trapezia ●To calculate volume and surface area of cuboids	●Add and subtract fractions with different denominators ●Apply multiplication and division to fractions ●Calculate percentages of quantities ●To solve missing number problems ●To explore area ●To investigate volume	Mini topic assessments after each section of work
Summer 2	●Draw and Describe Reflections ●Draw and Describe Rotations ●Draw and Describe Translations ●To be able to construct and complete frequency tables ●To be able to construct and interpret pictograms and bar charts ●To be able to construct pie charts	●To calculate area of triangles and parallelograms ●To calculate volume of cuboids ●To convert units of area and volume ●Use coordinates to describe the position of a point ●Draw points using coordinates ●Translate and Reflect shapes	Mini topic assessments after each section of work. End of Year written assessments