

What are the aims and intentions of this curriculum?

Term	Set 1, 2 and 3	Set 4	Assessment
Autumn 1	<ul style="list-style-type: none"> •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 	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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 	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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 	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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 	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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 	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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 	<ul style="list-style-type: none"> •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