

MATHEMATICS Long Term Planning - Summary of YEAR 6 Units

AUTUMN 1	AUTUMN 2
<ul style="list-style-type: none"> - Read, write, compare and order number up to 10,000,000 and understand the value of each digit. - Round any whole number accurately. - Use negative numbers in context and calculate intervals across zero. Apply these skills to problem solving including temperatures. - Solve addition and subtraction multi-step problems in context. - Multiply 4-digit by 2-digit numbers by using long multiplication written methods. - Divide numbers by using both the short and long written methods, and interpret remainders as fractions and decimals. - Multiply 1-digit numbers with up to 2 decimal places by whole numbers. - Divide decimal numbers by 1-digit whole numbers. - Use estimation to check answers and use inverse operations. - Multiply and divide numbers by 10, 100 and 1000 giving answers to 3 decimal places. - Draw 2d shapes with given measurements and angles. 	<ul style="list-style-type: none"> - Solve addition, subtraction, multiplication and division multi-step problems in context. - Use common factors to simplify fractions and identify common multipliers. - Recognise, describe 3d shapes and nets. - Compare and classify geometric shapes based on properties and angles. - Recognise and work out missing angles in different contexts. - Identify and work out the different parts of a circle. - Use simple formulae, generate and describe number sequences. Express missing number problems algebraically. - Begin to use and work out ratios and proportions and apply in different contexts.
SPRING 1	SPRING 2
<ul style="list-style-type: none"> - Solve addition, subtraction, multiplication and division multi-step problems in context. - Compare and order fractions to 1. - Add and subtract fractions. - Multiply simple pairs of fractions. - Divide proper fractions by whole numbers. - Recall and recognise equivalences between simple fractions, decimals and percentages. - Solve problems including conversions of measure. - Use, read, write and convert all measures. - Describe position on the full quadrant coordinate grid. - Draw and translate simple shapes and reflect them on the axes. - Interpret and construct pie charts. - Calculate mode, median, range and mean for a set of data. 	<ul style="list-style-type: none"> - Solve addition, subtraction, multiplication and division multi-step problems in context. - Continue to practise, use and problem solve with fractions, percentages and decimals. - Find the area of parallelograms and triangles and use the formulas to work out missing measurements. - Draw and label 2d shapes on a full coordinates grid and work out missing coordinates. - Convert miles to km and use graphical representations to show this. - Begin to find and work out volume for cubes and cuboids.
SUMMER 1	SUMMER 2
<ul style="list-style-type: none"> - Solve addition, subtraction, multiplication and division multi-step problems in context. - Continue to practise, use and problem solve with fractions, percentages and decimals. - Find and work out volume for cubes and cuboids using standard units of measure. - Introduce the use of symbols and letter to represent unknowns in mathematical situations, e.g. missing number sentences and unknown measurements. 	<ul style="list-style-type: none"> - Solve addition, subtraction, multiplication and division multi-step problems in context. - Continue to practise, use and problem solve with fractions, percentages and decimals. - Find and work out volume for cubes and cuboids using standard units of measure. - Solve problems including conversions of all measures including converting between imperial and metric. - Introduce compound units for speed and link this to learning in other subjects.