Curriculum Overview

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
6	**Place Value** -Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit. -Round any integers. -Rounding decimals. -Use powers of 10 to problem solve. -Use negative numbers in context and calculate intervals across zero. **The Four Operations** - Add and subtract integers. -Add and subtract integers with decimals. -Multiply and divide numbers by 10, 100 and 1000. -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. -Solve single step and multi-step problems in contexts, deciding which operations and methods to use and why. -Interpret remainders as fractions or decimals. -Identify common factors, common multiples, prime numbers and rules of divisibility. -Use order of operations. -Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.	**Fractions, Decimals and Percentages.** -Use common factors to find equivalent fractions. -Compare and order fractions, including fractions > 1. -Add and subtract fractions with different denominators and mixed numbers. -Multiply and divide fractions by both an integer and fractions. -Find fractions of an amount. - Read, write, order and compare integers and decimals. -Multiply and divide decimals by an integer. -Solve problems involving the calculation of percentages. -Calculate percentage of an amount. -Read, write, order and compare equivalent fractions, decimals and percentages. **Ratio** -Use ratio language -Introduction to the ratio symbol -Ratio and fractions -Scale drawing -Use scale factors -Similar shapes -Ratio problems -Proportion problems -Recipes	**Measurement** -Use, read, write and convert between standard units, converting measurements of length, mass, volume and time. -Convert between miles and kilometers. -Solve problems involving the calculation and conversion of units of measure. -Recognise that shapes with the same areas can have different perimeters and vice versa. -Recognise when it is possible to use formulae for area and volume of shapes. -Calculate the area of parallelograms and triangles. -Calculate, estimate and compare the volume of cubes and cuboids. **Geometry** -Draw 2-D shapes using given dimensions and angles. -Recognise, describe and build simple 3-D shapes, including making nets. -Compare and classify geometric shapes based on their properties and sizes. -Measure using a protractor. -Find unknown angles in any triangles, quadrilaterals, and regular polygons. -Illustrate and name parts of circles. -Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. -Describe positions on the full coordinate grid. -Draw and translate simple shapes on the coordinate plane and 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. **Statistics** -Interpret and construct pie charts. -Interpret and construct line graphs. -Calculate and interpret the mean as an average.	**Projects** *Consolidating topics covered throughout the year.*	**Projects** *Consolidating topics covered throughout the year.*