Medium Term Plan KS2 – Maths Year 6 – Autumn Term				
Block 1 - Place Value	**Block 2 – Addition & Subtraction**	**Block 3 – Fractions A**	**Block 4 – Fractions B**	**Block 5 – Converting Units**
Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit Solve number and practical problems that involve the above Round any whole number to a required degree of accuracy Use negative numbers in context, and calculate intervals across zero	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 Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy Identify common factors, common multiples and prime numbers Multiply multi-digit numbers up to four digits by a 2-digit whole number using the formal written method of long multiplication Perform mental calculations, including with mixed operations and large numbers Divide numbers up to four digits by a 2-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context	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 Identify common factors, common multiples and prime numbers 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 proper fractions and mixed numbers by whole numbers, supported by materials and diagrams (Y5) 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 Divide proper fractions by whole numbers Solve problems involving addition, subtraction, multiplication and division Associate a fraction with division and calculate decimal fraction equivalents	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places

	Use their knowledge of the order of operations to carry out calculations involving the four operations			

Medium Term Plan KS2 – Maths Year 6 – Spring Term					
Block 1 – Ratio	**Block 2 – Algebra**	**Block 3 - Decimals**	**Block 4 – Fractions, Decimals & Percentages**	**Block 5 – Area, Perimeter & Volume**	**Block 6 - Statistics**
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 unequal sharing and grouping using knowledge of fractions and multiples Solve problems involving similar shapes where the scale factor is known or can be found	Use simple formulae Generate and describe linear number sequences Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables Express missing number problems algebraically	Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places Solve problems which require answers to be rounded to specified degrees of accuracy Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Multiply 1-digit numbers with up to 2 decimal places by whole numbers Use written division methods in cases where	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts Compare and order fractions, including fractions >1 Solve problems involving the calculation of percentages and the use of percentages for comparison	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 volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs (Year 4) Interpret and construct pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average

		the answer has up to 2 decimal places Solve problems involving addition, subtraction, multiplication and division			

Medium Term Plan KS2 – Maths Year 6 – Summer Term		
Block 1 – Shape	**Block 2 – Position & Direction**	**Block 3 – Themed projects, consolidation & Problem Solving**
Draw given angles, and measure them in degrees (°) (Y5) Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles (Y5) Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Draw 2-D shapes using given dimensions and angles Recognise, describe and build simple 3-D shapes, including making nets	Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes	