Year 6 Maths Long Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Term 1	**Number (NPV)** Read, write, order and compare numbers up to 10 million and determine the value of each digit Round any whole number to a required degree of accuracy Use negative numbers in context, and calculate intervals across zero		**Number (Four operations)** Multiply multi-digit numbers up to 4 digits by a two-digit whole number using long multiplication. Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division Divide numbers up to 4 digits by a two-digit number using the formal written method of short division interpret remainders as whole number remainders, fractions, or by rounding Identify common factors, common multiples and prime numbers.				WHOLE SCHOOL THEME WEEK (LITERACY)
Term 2	**Number (Four operations)** Perform mental calculations, including with mixed operations and large numbers.		**Fractions** 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. Multiply simple pairs of proper fractions, writing the answer in its simplest form. Divide proper fractions by whole numbers.			**Measurement** Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places Use, read, write and convert between standard units, converting measurements of length, mass, volume and time using decimal notation to up to three decimal places Convert between miles and kilometres	
Term 3	WEEK 1- WHOLE SCHOOL THEME WEEK (STEM) **Ratio and Proportion** 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 the calculation of percentages and the use of percentages for comparison Solve problems involving similar shapes where the scale factor is known or can be found Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples		**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.		**Fraction (incl. Decimals)** Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction. Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. Multiply one-digit numbers with up to two decimal places by whole numbers. Use written division methods in cases where the answer has up to two decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy.		
Term 4	**Fractions (incl Decimals and Percentages)** Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.		**Measurement** 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		**Statistics** Interpret and construct pie charts and line graphs and use these to solve problems. Calculate and interpret the mean as an average.		

Term 5	**Geometry: Properties of Shape** 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 and find unknown angles Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles	**Geometry: Position and Direction** 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	**KS2 SATs**	**Review**	
Term 6	**Problem Solving and Investigation** Area of a Polygon Convert units Number patterns Order of operations	WHOLE SCHOOL THEME WEEK (SPORTS)	**TRANSITION WORK/INTERVENTIONS**		