YEAR 6 MATHS: NUMBER AND PLACE VALUE			
Read, write, order and compare numbers up to 10 000 000 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			
Solve number and practical problems that involve all of the above			
MATHS: CALCULATION			
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 division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context			
Identify common factors, common multiples and prime numbers			
Use their knowledge of the order of operations to carry out calculations involving 4 operations			
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			
NUMBER: FRACTIONS, DECIMALS and PERCENTAGES			
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 [for example, 1/3 ÷ 2 = 1/6]			
Identify the value of each digit in numbers given to three decimal places			
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			
Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts			
MATHS: RATIO AND PROPORTION			
Solve problems involving scale factors of two quantities using multiplication and division.			
Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison			
Solve problems involving similar shapes where the scale factor is known or can be found			
MATHS: ALGEBRA			
Express missing number problems algebraically			
Find pairs of numbers that satisfy an equation with two unknowns			
Enumerate possibilities of combinations of two variables			
Use simple formulae			
Generate and describe linear number sequences			

MATHS: MEASUREMENT: SHAPE			
Use, read, write and convert between standard units, converting measurements of length from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places			
Convert between miles and kilometres			
Recognise that shapes with the same areas can have different perimeters and vice versa			
Calculate the area of parallelograms and triangles			
MATHS: MEASUREMENT: MASS, WEIGHT			
Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate			
Use, read, write and convert between standard units, converting mass from a smaller unit of measure to a larger unit, and vice versa, using notation to up to three places			
MATHS: MEASUREMENT: CAPACITY AND VOLUME			
Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate			
Use, read, write and convert between standard units, converting measurements of volume from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places			
Recognise when it is possible to use formulae for volume of shape			
Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units			
MATHS: MEASUREMENT: TEMPERATURE			
Solve problems involving the calculation and conversion of units of measure, using decimal notation where appropriate			
MATHS: MEASUREMENT: TIME			
Use, read, write, convert between standard units of time from a smaller unit of measure to a larger unit, using decimal to up to three decimal places			
Solve problems involving interpretation of timetables using the 24hr clock			
MATHS: MEASUREMENT: MONEY			
Solve problems involving the calculation and conversion of units of money, using decimal notation where appropriate			
MATHS: 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 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			
Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles			
MATHS: GEOMETRY: POSITION AND DIRECTION			
Describe positions on the full coordinate grid (all four quadrants)			
Draw, translate, reflect and rotate simple shapes on the coordinate plane, using all four			
MATHS: STATISTICS			
Interpret and construct line graphs and use these to solve problems			
Interpret and construct pie charts and use these to solve problems			
Calculate and interpret the mean as an average.			