Year 6Maths Curriculum 2014 Name:		
Numbers and the number system		
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 KPI		
use negative numbers in context, and calculate intervals across zero KPI		
solv e number and practical problems that involve all of the above		
Addition, subtraction, multiplication and division		
multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication KPI		
perform mental calculations, including with mixed operations and large numbers		
divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as		
whole number remainders, fractions, or by rounding, as appropriate for the context <b>KPI</b>		
divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting		
remainders according to the context identify common factors, common multiples and prime numbers		
use their knowledge of the order of operations to carry out calculations involving the four operations		
solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why <b>KPI</b>		
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. KPI		
Fractions and decimals		
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		
[for example, ¼ x ½ = 1/8]		
divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$ ]	$\longrightarrow$	
associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]		
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 KPI		
solve problems which require answers to be rounded to specified degrees of accuracy KPI		
recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. <b>KPI</b>		
Ratio and Proportion solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and		<u> </u>
division facts		
solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages		
for comparison KPI		
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. KPI		
Algebra		
use simple formulae KPI		
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.		
Measurement		
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 length, mass, volume and time from a smaller unit of		
measure to a larger unit, and vice versa, using decimal notation to up to three decimal places <b>KPI</b>		
convert between miles and kilometres		
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 (cm3) and cubic metres		
(m3), and extending to other unit[for example, mm3 and km3].		
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 and find unknown angles in any triangles, quadrilaterals, and		
regular polygons KPI illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	$\vdash$	
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 (all four quadrants)		
draw and translate simple shapes on the coordinate plane, and reflect them in the axesKPI		
Statistics		
interpret and construct pie charts and line graphs and use these to solve problems (P)		
calculate and interpret the mean as an average. KPI		