

Year 5 Achievement Record		Accumulative over the year	
Name: _____ Class: _____		Secure learning	Using and applying
At the beginning of a unit, before it is taught, elicit understanding of previous and present year's objectives. Secure learning needs a green tick if understanding of objective is not required and children can go straight on to securing and enriching understanding through problem solving and reasoning activities. Secure understanding must be shown using a black tick (except green tick to show understanding prior to first cycle of teaching).			Problem solving
Number			
<i>Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</i>			
<i>Count forwards and backwards in steps of powers of 10 for any given number up to 1 000 000</i>			
<i>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</i>			
<i>Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</i>			
<i>Solve number problems that involve all of the above</i>			
Read roman numerals 10 1000 (M) and recognise years written in Roman numerals.			
Addition and Subtraction			
<i>Add whole numbers with more than four- digit, including using formal written methods (columnar addition and subtraction)</i>			
<i>Subtract whole numbers with more than four- digit, including using formal written methods (columnar addition and subtraction)</i>			
<i>Add and subtract mentally with increasingly large numbers</i>			
<i>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</i>			
<i>Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why.</i>			
Multiplication and Division			
<i>Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers; Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</i>			
<i>Establish whether a number up to 100 is prime and recall prime numbers up to 19</i>			
<i>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers</i>			
<i>Multiply and divide numbers mentally drawing upon known facts</i>			
<i>Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for context</i>			
<i>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</i>			
<i>Recognise and use square numbers and cube numbers and the notation</i>			
<i>Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</i>			
<i>Solve problems involving addition, subtraction, multiplication and division and a combination of these including understanding the meaning of the equals sign</i>			
<i>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</i>			
Fractions			
<i>Compare and order fractions whose denominators are all multiples of the same number</i>			

<i>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</i>			
<i>Recognise mixed numbers and improper fractions and convert from one form to another and write mathematical statements >1 as a mixed number [for example, $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$</i>			
<i>Add and subtract fractions with the same denominator and denominators that are multiples of the same number</i>			
<i>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</i>			
<i>Read and write decimal numbers as fractions [for example, $0.71 = 71/100$]; Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</i>			
<i>Round decimals with two decimal places to the nearest whole number and to one decimal place</i>			
<i>Read, write, order and compare numbers with up to three decimal places</i>			
<i>Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal</i>			
<i>Solve problems which require knowing percentages and decimal equivalents of half, quarter, fifth, two fifths, four fifths and those fractions with a denominator of a multiple of 10 or 25</i>			
Measurement			
<i>Convert between different units of metric measure (for example, kilometres and metres; centimetres and metres; centimetres and millimetres; gram and kilogram; litre and millilitre)</i>			
Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints			
Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres			
Calculate and compare the area of rectangles (including squares), and using standard units, square centimetres and square metres and estimate the area of irregular shapes			
Estimate volume [for example using 1cm ³ blocks to build cuboids (including cubes)]and capacity {for example using water}			
<i>Solve problems involving converting between units of time</i>			
Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling			
Geometry - Properties of shapes			
Identify 3-D shapes, including cubes and other cuboids, from 2-D representations			
<i>Know angles are measures in degrees: estimate and compare acute, obtuse and reflex angles</i>			
<i>Draw given angles and measure them in degrees</i>			
Identify angles at a point and one whole turn, angles at a point on a straight line and $\frac{1}{2}$ a turn and other multiples of 90 degrees			
Use the properties of rectangles to deduce related facts and find missing lengths and angles			
Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.			
Geometry-position and direction			
<i>Identify, describe and represent the position of a shape following a reflection or translation using the appropriate language and know that the shape has not changed.</i>			
Statistics			
Solve comparison, sum and difference problems using information presented in a line graph			
<i>Complete read and interpret information in tables including timetables</i>			
Total number of secure objectives.			
	<u>47</u>	<u>47</u>	<u>47</u>

