## LOUDWATER COMBINED SKILLS

## Maths: progression of skills

| We have used White Rose Maths to create this document |  |  |  |  |  |  |  |
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| Skills |  |  |  |  |  |  |  |
|  | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Place value: counting | - Count objects, actions and sounds <br> - Subsitise <br> - Count beyond ten <br> - Count verbally beyond 20 | - Count to and across 100, forwards and backwards, beginning with 0 or 1 , or from any given number <br> - Count numbers to 100 in numerals; count in multiples of twos, fives and tens | - Count in steps of 2,3, and 5 from 0 , and in tens from any number, forward and backward | - Count from 0 in multiples of 4,8 <br> - 50 and 100 ; find 10 or 100 more or less than a given number | - Count in multiples of 6 , $7,9,25$ and 1000 <br> - Count backwards through zero to include negative numbers | - Count forwards or backwards in steps of powers of 10 for any given number up to 1 000000 <br> - Count forwards and backwards with positive and negative whole numbers, including through zero |  |
| Place value: represent | Link the number symbol (numeral) with its cardinal number value Explore the composition of numbers to 10 | - Identify and represent numbers using objects and pictorial representations <br> - Read and write numbers to 100 in numerals <br> - Read and write numbers from 1 to 20 in numerals and words | - Read and write numbers to at least 100 in numerals and in words <br> - Identify, represent and estimate numbers using different representations including the number line | - Identify, represent and estimate numbers using different representations <br> - Read and write numbers to 1000 in numerals and in words | - Identify, represent and estimate numbers using different representations <br> - Read Roman numerals to 100 (I to C) and know that over time the numeral system changed to include the concept of zero and place value | - Read, write (order and compare) numbers to at least 1000000 and determine the value of each digit <br> - Read Roman numerals to 1000 (M) and recognise years written in Roman numerals <br> - Partition numbers to 1,000,000 <br> - identify numbers on a number line | - Read, write (order and compare) numbers up to 10000000 and determine the value of each digit |
| Place value: using Place value to compare | Compare numbers using language: 'more than', 'less than', 'fewer', 'same as' <br> - Understand the ‘one more than/one less than' relationship between consecutive numbers | - Given a number, identify one more and one less | - Recognise the value of each digit in a two-digit number (tens, ones) <br> - Compare and order numbers from 0 up to 100; use <,> and = signs | - Recognise the place value of each digit in a three-digit number (hundreds, tens, one's) <br> - Compare and order numbers up to 1000 | - Find 1000 more or less than a given number <br> - Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) <br> - Order and compare numbers beyond 1000 | - (Read, write) order and compare numbers to at least 1000000 and determine the value of each digit | - (Read, write) order and compare numbers to at least 10000000 and determine the value of each digit |


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| Place value: <br> Problems and Rounding |  |  | - Use place value and number facts to solve problems | - Solve number problems and practical problems involving these ideas | - Round any number to the nearest 10,100 or 1000 <br> - Solve number and practical problems that involve all of the above and with increasingly large and positive numbers | - Interpret negative numbers in context <br> - Round any number up to 1000000 to the nearest $10,100,1000$, 10000 and 100000 <br> - Solve number problems and practical problems that involve all of the above | - Round any whole number to a required degree of accuracy <br> - Use negative numbers in context, and calculate intervals across zero <br> - Solve number and practical problems that involve all of the above |
| Addition and subtraction: <br> Recall, represent, Use | - Automatically recall number bonds for numbers 0-10 | - Read, write and interpret mathematical statements involving addition, subtraction and equals signs <br> - Represent and use number bonds and related subtraction facts within 20 | - Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 <br> - Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from one number to another cannot <br> - Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems | - Estimate the answer to a calculation and use inverse operations to check answers | - Estimate and use inverse operations to check answers to a calculation | - Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy |  |


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| Addition and subtraction: Calculations |  | - Add and subtract one digit and two-digit numbers to 20 , including zero | - Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> - A two-digit number and ones <br> - A two-digit number and ones <br> - Two two-digit numbers <br> - Adding three onedigit numbers | - Add and subtract numbers mentally, including: <br> - A three-digit number and ones <br> - A three-digit number and tens <br> - A three-digit number and hundreds <br> - Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction | - Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate | - Add and subtract whole numbers with more than 4 digits, including formal written methods (columnar addition and subtraction) <br> - Add and subtract numbers mentally with increasingly large numbers | - Perform mental calculations, including with mixed operations and large numbers <br> - Use their knowledge of the order of operations to carry out calculations involving the four operations <br> - To add and subtract integers |
| Addition and subtraction: Solve problems |  | - Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems | - Solve problems with addition and subtraction: <br> - Using concrete objects and pictorial representation, including numbers, quantities and measures <br> - Applying their increasing knowledge of mental and written methods | - Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction | - Solve addition and subtraction two- step problems in contexts, deciding which operations and methods to use and why | - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why <br> - Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign | - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why |


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| Multiplication and division: <br> Recall, represent, Use |  |  | - Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers <br> - Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot | - Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables | - Recall multiplication and division facts for multiplication tables up to $12 \times 12$ <br> - Use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1 ; dividing by 1 ; multiplying together three numbers <br> - Recognise and use factor pairs and commutativity in mental calculations | - Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers <br> - Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers <br> - Establish whether a number up to 100 is prime and recall prime numbers up to 19 <br> - Recognise and use square numbers and cube numbers, and the notion for squared and cubed | - Identify common factors, common multiples and prime numbers <br> - Identify square and cube numbers <br> - Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy <br> - To understand the rules of divisibility. |
| Multiplication and division: Calculations |  |  | - Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication, division and equals signs | - Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times onedigit numbers, using mental and progressing to formal written methods | - Multiply two-digit and three-digit number by a one- digit number using a formal written number | - Multiply numbers up to 4 digits by a one or twodigit number using a formal written method, including long multiplication for twodigit numbers <br> - Multiply and divide numbers mentally drawing upon known facts <br> - Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context <br> - Multiply and divide whole numbers and those involving decimals by 10,100 and 1000 | - Multiply multi- digit numbers up to 4 digits by a two-digit whole number using the formal written method multiplication <br> - 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 <br> - 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 <br> - Perform mental calculations, including with mixed operations |


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| Multiplication and division: <br> Solve problems |  | - Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher | - Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, involving problems in contexts | - Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which $n$ objects are connected to m objects | - Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects | - Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes <br> - Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates <br> - Solve problems including addition, subtraction, multiplication and division and a combination of these, including the meaning of the equals sign | - Solve problems involving multiplication and division <br> - Use their knowledge of the order of operations to carry out calculations involving the four operations |


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| Fractions: <br> Recognise and Write |  | - Find, recognise and name a half as one of two equal parts of an object, quantity or shape <br> - Find, recognise and name a quarter as one of four equal parts of an object, quantity or shape | - Recognise, find and name fractions $1 / 2$, $1 / 4,2 / 4$ and $3 / 4$ of a length, shape, set of objects or quantity | - Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 <br> - Recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators <br> - Recognise and use fractions as numbers: unit fractions and nonunit fractions with small denominators | - Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by 10 | - Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths <br> - Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements |  |
| Fractions: compare |  |  | - Recognise the equivalence of $2 / 4$ and $1 / 2$ | - Recognise and show, using diagrams, equivalent fractions with small denominators <br> - Compare and order unit fractions, and fractions with the same denominators | - Recognise and show, using diagrams, families of common equivalent fractions | - Compare and order fractions whose denominators are all multiples of the same number | - Use common factors to simplify fractions; use common multiples to express fractions in the same denomination <br> - Compare and order fractions including fractions > 1 including on a number line <br> - Compare and order fractions (numerator) <br> - Compare and order fractions (denominator) |


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| Fractions: <br> Calculations |  |  | - Write simple fractions for example $1 / 2$ of $6=3$ | - Add and subtract fractions with the same denominator within one whole | - Add and subtract fractions with the same denominator | - Add and subtract fractions with the same denominator and denominators that are multiples of the same number <br> - Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams <br> - Add and subtract mixed numbers | - Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions <br> - Multiply fractions by an integer <br> - Multiply simple pairs of proper fractions, writing the answer in its simplest form <br> - Divide proper fractions by whole numbers <br> - Find fractions of an amount |
| Fractions: solve problems |  |  |  | - Solve problems that involve all of the above | - Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number |  | - Solve multi-step problems with fractions (Addition, subtraction, multiplication and division). |
| Decimals: Recognise |  |  |  |  | - Recognise and write decimal equivalents of any number of tenths or hundredths <br> - Recognise and write decimal equivalents to $1 / 4,1 / 2,3 / 4$ | - Read and write decimal numbers as fractions $0.71=71 / 100$ <br> - Recognise and use thousandths and relate them to tenths, hundredths and decimal fractions | - Identify the value of each digit in numbers given to three decimal places |
| Decimals: compare |  |  |  |  | - Round decimals with one decimal place to the nearest whole number <br> - Compare numbers with the same number of decimal places up to two decimal places | - Round decimals with two decimal places to the nearest whole number and to one decimal place <br> - Read, write, order and compare numbers with up to three decimal places | - Read, write, order and compare numbers with up to three decimal places |


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| Decimals: <br>  <br> Problems |  |  |  |  | - Find the effect of dividing a one-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths | - Solve problems involving a number up to three decimal places | - Multiply and divide numbers by 10,100 and 1000 giving answers up to three decimal places <br> - Multiply one-digit numbers with up to two decimal places by whole numbers <br> - Use written division methods in cases where the answer has up to two decimal places |
| Fractions, Decimals and Percentages |  |  |  |  | - Solve simple measure and money problems involving fractions and decimals to two decimal places | - Recognise the percent symbol and understand that percent relates to 'number of parts per hundred', and write percentages as a fraction with a denominator 100 and as a decimal <br> - Solve problems which require knowing percentage and decimal equivalents of $1 / 2,1 / 4,1 / 5,2 / 5,4 / 5$ and those fractions with a denominator of a multiple of 10 or 25 | - Associate a fraction with division and calculate decimal fraction equivalents <br> - Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts <br> - Order fractions, decimals and percentages by converting. <br> - Calculate percentages of amount <br> - Calculate the missing whole or missing percentage when other values are given. |


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| Ratio and proportion |  |  |  |  |  |  | - Solve problems including the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts <br> - Solve problems involving the calculation of percentages and the use of percentages for comparison <br> - Solve problems involving similar shapes where the scale factor is known or can be found <br> - Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples |
| Algebra | - Continue, copy and create repeating patterns. | - Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems | - Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems | - Solve problems, including missing number problems |  |  | - Use simple formulae <br> - Generate and describe linear number sequences <br> - Express missing number problems algebraically <br> - Find pairs of numbers that satisfy an equation with two unknowns <br> - Enumerate possibilities of combinations of two variables |


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| Measurement: <br> Using measures | Compare length, weight and capacity. | - Compare, describe and solve practical problems for: <br> - Lengths and heights <br> - Mass/weight <br> - Capacity and volume <br> - Time | - Choose and use appropriate standard units to estimate and measure length/height in any direction ( $\mathrm{m} / \mathrm{cm}$ ); mass (kg/g); temperature; capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels | - Measure, compare add and subtract lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass (kg/g); volume capacity (l/ml) | - Convert between different units of measure - kilometre to metre and hour to minute | - Convert between different units of metric measure <br> - Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints | Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate |
| Measurement: Capacity, volume \& time |  | - Measure and begin to record the following: <br> - Lengths and heights <br> - Mass/weight <br> - Capacity and volume <br> - Time (hours, minutes, seconds) | - Compare and order lengths, mass, volume/capacity and record the results using $>$, < and = |  | - Estimate, compare and calculate different measures | - Use all four operations to solve problems involving measure using decimal notion including scaling | - 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 notion up to three decimal places <br> - Convert between miles and kilometres |
| Measurement: money |  | - Recognise and know the value of different denominations of coins and notes | - Recognise and use symbols for pounds and pence; combine amounts to make a particular value <br> - Find different combinations of coins that equal the same amounts of money <br> - Solve simple problems in a practical context involving addition and subtraction of money of the same unit; including giving change recording pounds and pence separately | - Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts | - Estimate, compare and calculate different measures, including money in pounds and pence | - Use all four operations to solve problems involving money |  |


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| Measurement: Time |  | - Sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening) <br> - Recognise and use language relating to dates, including days of the week, weeks, months and years <br> - Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times | - Compare and sequence intervals of time <br> - Tell and write the time to five minutes including quarter past/ to the hour and draw the hands on a clock face to show these times <br> - Know the number of minutes in an hour and the number of hours in a day | - Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12 -hour and 24- hour clocks <br> - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. <br> - Know the number of seconds in a minute and the number of days in each month, year and leap year <br> - Compare durations of events, for example the amount of time taken by a particular event | - Read, write and convert time between analogue and digital 12 - and 24 - hour clocks <br> - Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days | - Solve problems involving converting between units of time |  |
| Measurement: Perimeter, area, Volume |  |  |  | - Measure the perimeter of 2- D shapes | - Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres <br> - Find the area of rectilinear shapes by counting squares | - Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres <br> - Calculate and compare the area of rectangles (including squares) and including using standard units, square centimetres and square metres and estimate the area of irregular shapes <br> - Estimate volume <br> - Calculate and compare volume | - Calculate area and perimeter of rectilinear shapes. <br> - Recognise when it is possible to use formulae for area and volume of shapes <br> - Calculate the area of parallelograms and triangles <br> - Calculate, estimate and compare volume of cubes and cuboids using standard units including cubic centimetres and cubic metres and extending to other units (km and mm ) |


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| Geometry: 2-d shapes | - Select, rotate and manipulate shapes in order to develop spatial reasoning skills <br> - Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can | - Recognise and name common 2- D shapes (for example, rectangles (including squares), circles and triangles) | - Identify and describe 2D shapes, including the number of sides and line of symmetry in a vertical line <br> - Identify 2-D shapes on the surface of $3-\mathrm{D}$ shape <br> - Compare and sort common 2-D shapes and everyday objects | - Draw 2-D shapes | - Comapre3 and classify geometric shapes including quadrilaterals and triangles, based on their properties and size <br> - Identify lines of symmetry in 2-D shapes presented in different orientations | - Distinguish between regular and irregular polygons based on reasoning about equal sides and angle <br> - Use the properties of rectangles to deduce relating facts and find missing lengths and angles | - Draw 2-D shapes using dimensions and angles <br> - Compare and classify geometric shapes based on their properties and sizes <br> - Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius |
| Geometry: 3-d shapes | - Select, rotate and manipulate shapes in order to develop spatial reasoning skills <br> - Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can | - Recognise and name common 3-D shapes (for example, cuboids, (including cubes), pyramids and spheres) | - Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces | - Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them |  | - Identify 3-D shapes, including cubes and other cuboids, from 2D representations | - Recognise, describe and build simple 3D shapes including making nets |
| Geometry: angles and lines |  |  |  | - Recognise angles as a property of shape or a description of a turn <br> - Identify right angles, recognise that two right angles make a half-turn, three make three- quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle <br> - Identify horizontal and vertical lines and pairs of perpendicular and parallel lines | - Identify acute and obtuse angles and compare and order angles up to two right angles by size <br> - Identify lines of symmetry in 2-D shapes presented in different orientations <br> - Complete a simple symmetric figure with respect to a specific line of symmetry | - Know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles <br> - Draw given angles and measure them in degrees <br> - Identify: <br> - Angles at a point and one whole turn <br> - Angles at a point on a straight line and $1 / 2$ a turn (total 180 degrees) <br> - Other multiples of 90 degrees | - Find unknown angles in any triangles, quadrilaterals and regular polygons <br> - Recognise angles where they meet at a point, are on a straight line, or are vertically opposite and find missing angles |


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| Geometry: <br> Position and <br> Direction |  | - Describe position, direction and movement, including whole, half, quarter and three-quarter turns | - Order and arrange combinations of mathematical objects in patterns and sequences <br> - Use mathematical vocabulary to describe position and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half, and three-quarter turns (clockwise and anticlockwise) |  | - Describe positions on a 2-D grid as coordinates in the first quadrant <br> - Describe movements between positions as translations of a given unit to the left/right and up/down <br> - Plot specified points and draw sides to complete a given polygon | - 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 been changes | - Describe positions on the full coordinate grid <br> - Draw and translate simple shapes on the coordinate plane, and reflect them in the axes |
| Statistics: <br> Present and Interpret |  |  | - Interpret and construct simple pictograms, tally charts, block diagrams and simple tables | - Interpret and present data using bar charts, pictograms and tables | - Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs | - Complete, read and interpret information in tables, including timetables | - Interpret and construct pie charts and line graphs and use them to solve problems |
| Statistics: solve Problems |  |  | - Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity <br> - Ask and answer questions about totalling and comparing categorical data | - Solve one-step and twostep questions using information presented in scaled bar charts and pictograms and tables | - Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs | - Solve comparison, sum and difference problems using information presented in a line graph | - Calculate and interpret the mean as an average <br> - Illustrate and name parts of a circle <br> - Read, interpret and draw pie charts |

