## Cathcart Street Primary School 2023-2024

|  | Autumn 1 | Spring 1 | Summer 1 |
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|  | Year 6 NC Objectives | Year 6 NC Objectives | Year 6 NC Objectives |
|  | NUMBER: Place Value <br> - Read, write, order and compare numbers up to $10,000,000$ and determine the value of each digit <br> - 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 the above <br> NUMBER: Addition \& Subtraction Multiplication and Division <br> - Solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why <br> - Solve problems involving addition, subtraction, multiplication and division <br> - Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy | Ratio <br> - Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts <br> - Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples <br> - Solve problems involving similar shapes where the scale factor is known or can be found <br> Algebra <br> - Use simple formulae <br> - Generate and describe linear number sequences <br> - Find pairs of numbers that satisfy an equation with two unknowns <br> - Enumerate possibilities of combinations of two variables <br> - Express missing number problems algebraically <br> NUMBER: Decimals <br> - Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10,100 and 1,000 giving answers up to 3 decimal places <br> - Solve problems which require answers to be rounded to specified degrees of accuracy | GEOMETRY: Shape <br> - Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles <br> - Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons <br> - Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius <br> - Draw 2-D shapes using given dimensions and angles <br> - Recognise, describe and build simple 3D shapes, including making nets <br> Geometry: Position and Direction <br> - Describe positions on the full coordinate grid (all four quadrants) <br> - Draw and translate simple shapes on the coordinate plane, and reflect them in the axes |


|  |  | - Multiply 1-digit numbers with up to 2 decimal places by whole numbers <br> - Use written division methods in cases where the answer has up to 2 decimal places |  |
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|  | Autumn 2 | Spring 2 | Summer 2 |
|  | NUMBER: Fractions <br> - Use common factors to simplify fractions; use common multiples to express fractions in the same denomination <br> - Compare and order fractions, including fractions > 1 <br> - Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions <br> - Multiply simple pairs of proper fractions, writing the answer in its simplest form <br> - Divide proper fractions by whole numbers <br> - Associate a fraction with division and calculate decimal fraction equivalents <br> MEASUREMENT: Converting Units <br> - Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate <br> - 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 3 decimal places <br> - Convert between miles and kilometres | NUMBER: Fractions, Decimals and Percentages <br> - Use common factors to simplify fractions; use common multiples to express fractions in the same denomination <br> - Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction <br> - Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts <br> - Compare and order fractions, including fractions $>1$ <br> - Solve problems involving the calculation of percentages and the use of percentages for comparison <br> Measurement: Area, Perimeter and Volume <br> - Recognise that shapes with the same areas can have different perimeters and vice versa <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 (cm3) and cubic metres (m3), and extending to other units <br> Statistics <br> - Interpret and construct pie charts and line graphs and use these to solve problems <br> - Calculate and interpret the mean as an average | Problem solving and Consolidation <br> - Solve number and practical problems. <br> - Solve problems involving the calculation of percentages [for example, of measures, and such as $15 \%$ of 360 ] and the use of percentages for comparison |



