MATHS CURRICULUM YEAR 5 AND 6

Year 5	Year 6
Place Value 1000s, 100s, 10s and 1s Numbers to a million Round to the nearest 10, 100 and 1000 Counting in 10s, 100s, 1000s, 10,000s and 100,000s Compare and order numbers to one million Negative numbers Roman numerals **Four operations** Add two 4 digit numbers with one exchange Add two 4 digit numbers with more than one exchange including column method Subtract two 4 digit numbers- one exchange Subtract two 4 digit numbers with more than one exchange including column method Round to estimate and approximate Inverse operations Multi-step addition and subtraction problems Multiply 4 digits by 1 digit Multiply 2 digits by 2 digits Multiply 3 digits by 2 digits Multiply 4 digits by 2 digits Divide 4 digits by 1 digit Divide with remainders Factors Multiples Prime numbers Square and cube numbers **Fractions** Equivalent fractions Improper fractions to mixed numbers Mixed numbers to improper fractions Number sequences Compare and order fractions Add and subtract fractions with different denominators Add 3 or more fractions Add and subtract mixed number fractions Multiple fractions Fractions of an amount	**Place value** Numbers to ten million Compare and order any number Round any number Negative numbers Recap of KS2 learning **Four operations** Add whole numbers with more than 4 digits Subtract whole number with more than 4 digits Inverse operations Multi-step problems Multiply 4 digits by 1 digit Multiply 2 digits by 2 digits Multiply 3 digits by 2 digits Multiply 4 digits by 2 digits Divide with remainders- short division Long division Factors Multiples Prime numbers Square and cube numbers Order of operations (BODMAS) Mental calculation and estimation Recap of KS2 learning **Fractions** Equivalent fractions Simplify fractions Improper fractions to mixed numbers Mixed numbers to improper fractions Number sequences Compare and order fractions Add and subtract fractions with different denominators Add 3 or more fractions Add and subtract mixed number fractions Divide fractions Multiple fractions Fractions of an amount Equivalent fractions, decimals and percentages Recap of KS2 learning

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Decimals Round decimals with 2 decimal places to the nearest whole number Read, write, order and compare numbers with up to 3 decimal places Read and write decimal numbers as fractions (tenths, hundreds, thousands) Solve problems involving numbers up to 2 decimal places **Percentages** Recognise the percent symbol and that this relates to parts out of 100 Write percentages as a fraction and as a decimal Solve problems which require % knowledge **Measurement** Convert between different units of metric measure Compare metric and imperial units Measure and calculate the perimeter of rectilinear shapes in cm and m Calculate and compare the area of rectangles using squares and standard units Estimate volume and capacity using 1cm2 cubes Solve problems involving units of time **Geometry (properties of shape)** Use the properties of rectangles to deduce related facts and find missing lengths and angles Sort regular and irregular polygons using sides and angles Identify 3D shapes from 2D representations Know angles are measured in degrees Estimate and compare acute, obtuse, and reflex angles Identify angles at a point and turn (multiples of 90) Draw and measure given angles in degrees **Geometry (position and direction)** Use and describe reflection of a shape **Statistics** Complete, read and interpret information in tables (e.g. timetables) Read, draw and interpret line graphs	**Decimals** Identify the value of each digit to 3 decimal places Divide by 10, 1000, 1000 (giving answers to 3 decimal places. Multiply by 10, 1000, 1000 (giving answers to 3 decimal places. Multiply 1 digit numbers with up to 2 decimal places by whole numbers using written methods Written division methods where the answer has up to 2 dp. Round decimals with 2 decimal places to the nearest whole number Read, write, order and compare numbers with up to 3 decimal places Read and write decimal numbers as fractions (tenths, hundreds, thousands) Solve problems involving numbers up to 2 decimal places **Percentages** Calculate percentage of amounts Recall and use equivalences between simple fractions, decimals and percentages Solve problems which require % knowledge **Measurement** Enumerate possibilities of combinations of two variables Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with 2 unknowns **Ratio** Solve problems involving the relative sizes of two quantities where missing values can be found 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. **Algebra** Enumerate possibilities of combinations of two variables

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Read, draw and interpret bar graphs Read, draw and interpret pie charts	Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with 2 unknowns **Geometry (properties of shape)** Can draw 2D shapes using given dimensions and angles Recognise, describe and build simple 3D shapes Compare and classify geometric shapes based on their properties and sizes Illustrate and name the parts of a circle (radius, diameter and circumference) Recognise angles where they meet at a point on a straight line or are vertically opposite and find missing angles **Geometry (position and direction)** Describe, positions on a full co-ordinate grid (4 quadrants) Draw and translate simple shapes on the co-ordinate plane and reflect them in the axis **Statistics** Read, draw and interpret line graphs Read, draw and interpret pie charts Calculate and interpret the mean as an average