



Maths Curriculum Intent

Through the three aims of the curriculum we aim to 'build mathematicians' who are **fluent**, can **problem solve** and **reason**. Children will build upon their knowledge each year as we explore through a CPA (concrete, pictorial, abstract) approach. They will apply their knowledge in different contexts to help them become resilient and determined learners as well as helping promote a depth of understanding across all strands.

Maths Curriculum Map 2019-2020

	Autumn	Spring	Summer
EYFS	Number a week Tailored to the children's needs and understanding	Number a week Tailored to the children's needs and understanding	Number a week Tailored to the children's needs and understanding
Year 1	<p style="text-align: center;">Number: Place value (within 10) + and - 1 Leading to within 20</p> <p style="text-align: center;">Number: Addition and Subtraction (within 10) Bonds to 4, 5, 6, 7, 8, 9, 10 Language of = to, more, less than, fewer</p> <p style="text-align: center;">Geometry Shape properties 2d and 3d</p> <p style="text-align: center;">Number: Place Value (within 20) + and - 1</p> <p style="text-align: center;">Identify and represent numbers using objects and pictorial representations Number lines Language of = to, more, less than, fewer, mostly</p>	<p style="text-align: center;">Number: Place Value counting in multiples of 2s, 5s, 10s</p> <p style="text-align: center;">Multiplication and Division Halves and doubles</p> <p style="text-align: center;">Addition and Subtraction T and O not crossing (using prior knowledge of bonds)</p> <p style="text-align: center;">Measurement and comparison across all measures</p>	<p style="text-align: center;">Fractions Halves and Quarters</p> <p style="text-align: center;">Multiplication and Division Solve 1 step problems Arrays</p> <p style="text-align: center;">Addition and Subtraction Crossing tens Addition and subtraction facts within 20 1 step number problems</p> <p style="text-align: center;">Place Value Partitioning 2-digit numbers into T and O</p> <p style="text-align: center;">Geometry and Time O'clock Half past</p>



Year 2	<p>Number: Place Value PV of digits in T0 Partitioning numbers into T and 0 including other combinations Estimate and recognise numbers on a number line Compare and Order numbers up to 100 using > < and =</p> <p>Addition and Subtraction 2 digit not crossing the boundaries 2 digit both numbers are tens 2 digit + tens e.g. 43 + 30 (not crossing 100)</p> <p>Multiplication and Division (May carry on into Spring) Arrays Commutativity Problem Solving Division problems Recall of the facts 2s 3s 5s 10s Place value – counting in 2s 3s 5s from 0 Counting in tens from any number</p>	<p>Geometry Properties of shape 2d and 3d Describing and comparing</p> <p>Fractions Recognise and find $\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$ of length, shape and quantity Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$</p> <p>Addition and Subtraction Adding 3 1 digit numbers Subtracting 3 1 digit numbers T0 + 0 crossing boundaries T0 – 0 crossing boundaries</p> <p>Time Quarter past Quarter to</p>	<p>Addition and Subtraction T0 + T0 to 100 T0 – T0 to 100</p> <p>Statistics Simple pictograms and tables Totalling data</p> <p>Position and Direction Patterns and sequences</p> <p>Multiplication and Division Mathematical statements for 2, 5, 10 times tables Commutativity Problem solving</p> <p>Addition and Subtraction T0 + T0 T0 – T0</p>



Year 3	<p>Number: Place Value Recognise pv in each digit in HTO Compare and order numbers up to 1,000 Identify represent and estimate umbers up to 1,000</p> <p>Number: Addition and Subtraction (up to) 3 digit + ones (up to) 3 digit + tens (up to) 3 digit + hundreds (up to) 3 digit - ones (up to) 3 digit - tens (up to) 3 digit - hundreds TO+ TO crossing hundreds TO - TO crossing tens (Column method not required at this point in the year)</p> <p>Number: Multiplication and Division Count in 4s 8s 50s from 0 3x 4x 8x facts Division facts</p>	<p>Fractions Find fractions of shapes, amounts Recognise and use fractions as numbers Compare and order fractions Not tenths</p> <p>Geometry Property of 2d and 3d shape Turns Right angles horizontal, vertical, parallel and perpendicular lines</p> <p>Time Analogue clocks Roman Numerals</p> <p>Addition and Subtraction Addition of 3 digit multiples of 10</p> <p>Multiplication and Division Division with remainders</p>	<p>Fractions Add and subtract fractions within 1 whole</p> <p>Statistics Interpret and present data using bar charts, pictograms, tables</p> <p>Addition and Subtraction Column method HTO + HTO Column method HTO - HTO</p> <p>Multiplication and Division TO X O TO ÷ O</p> <p>Time Read and write analogue To the nearest min 12 and 24 hr</p>
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Year 4	<p>Number: Place Value Negative numbers Count in 7s 9s 25s 1,000s Find 1,000 more / less Order and compare numbers beyond 1,000 Recognise pv of each digit in a 4 digit number Rounding to nearest 10, 100, 1,000</p> <p>Multiplication and Division Facts for 6s, 7s, 9s, 11s, 12s X by 0 and 1 ÷ by 1 X 3 single digits together</p> <p>Addition and Subtraction Add and subtract with up to 4 digits Columnar methods Estimate and use inverse 2 step problems</p>	<p>Fractions Multiplying and Dividing by 10 and 100 Decimal equivalents Rounding and comparing decimals Recognise tenths and hundredths Equivalent fractions Fractions of quantities Addition and subtraction of fractions with the same denominator across 1 whole</p> <p>Geometry / Measure Properties of 2d and 3d shape Area and perimeter</p>	<p>Multiplication and Division Factor pairs Written methods for TO X O HTO X O TO ÷ O inc remainders</p> <p>Time Roman Numerals Read, write and convert 12 and 24 Convert hours to minutes, minutes to seconds, years to months, weeks to days</p> <p>Statistics Bar charts Time graphs Pictograms Read and interpret information</p> <p>Geometry Position and Direction Co-ordinates Positions and translations</p> <p>Decimals Fraction and decimal equivalents Addition and subtraction of up to 4 digits with decimals</p>
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Year 5	<p>Number: Place value All strands of NC</p> <p>Multiplication and Division Multiplying whole numbers and decimals by 10, 100, 1,000 Converting units of measure Properties of number – sq, cubed, factors, prime X and ÷ mentally drawing on known facts</p> <p>Addition and Subtraction</p> <p>Decimals</p> <p>Statistics Mental vs written Merge with statistics – solve comparison, sum and difference problems</p>	<p>Fractions Recognising mixed numbers and improper fractions Order with denominators which are all multiples of the same number Add and subtract where denominators and multiples of the same number</p> <p>Number: decimals Reading and expressing as decimals Equivalents Order and compare</p> <p>Percentages</p>	<p>Geometry Properties of 2d shape Angles Area and Perimeter Volume (Measure)</p> <p>Multiplication and Division 4 digit x 1 digit 2 digit x 2 digit 3 digit x 2 digit 3 digit ÷ 1 digit 4 digit ÷ 1 digit</p> <p>Statistics and Time Reading timetables</p> <p>Position and Direction</p> <p>Addition and Subtraction Decimal numbers</p>
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Year 6	<p>Number: Place Value Revise all NC objectives</p> <p>Addition and Subtraction Word problems All methods Revise all NC objectives</p> <p>Multiplication and Division Factors, multiples, prime numbers 4 digit x 2 digit 4 digit ÷ 2 digit BODMAS (if secure)</p> <p>Measure Converting units of measure</p> <p>Fractions Simplifying fractions Comparing fractions Add and subtract with different denominators</p>	<p>Fractions Multiplying proper fractions Dividing proper fractions by a whole number</p> <p>Decimals, percentages Equivalents Parts of whole shape, quantity compare and order</p> <p>Ratio and Proportion Problem solving involving: Missing values (x and ÷) Calculation of percentages Shapes and scale factors Fractions and multiples</p> <p>Geometry Properties of 2d and 3d shapes</p> <p>Measurement Area and Perimeter Volume</p>	<p>Geometry:</p> <p>Position and Direction Position in all 4 quadrants</p> <p>Translation</p> <p>Reflection</p> <p>Statistics Pie charts Line graphs Mean, median, mode, range</p> <p>Algebra Simple formulae Generate and describe linear sequences</p> <p>Multi-step problems All contexts</p> <p>Algebra Generate and describe linear sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with 2 unknowns</p> <p>Properties of Number Revise all NC objectives</p>
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