

Maths Yearly Overview for whole school

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1	<p>Number Numbers to 20 Number bonds Addition</p> <p>Measurement Time – o'clock</p> <p>Geometry 2D shape</p>	<p>Number Numbers to 100 <>=</p> <p>Measurement Length Sequencing Time – o'clock and half past</p>	<p>Number One more, one less Subtraction</p> <p>Measurement Money Days of the week</p> <p>Geometry 3D shape</p>	<p>Number Multiples of 2 Addition TU</p> <p>Measurement Mass/Weight Capacity</p>	<p>Number Division Fractions – $\frac{1}{2}$ and $\frac{1}{4}$ Addition and subtraction</p> <p>Geometry Positional language</p>	<p>Number Counting in 2's ,5's and 10's Numbers to 100 Number bonds to 20</p> <p>Geometry 2D and 3D shape</p>
2	<p>Number Place value to 100 incl. positional, ordinal, odd & even, numerals Addition Subtraction Algebra (missing number calculations) Rounding</p>	<p>Number Multiples of 10 Addition Subtraction Multiplication</p> <p>Measurement Money Time – o'clock and half-past Time – five minute intervals</p>	<p>Number Place Value to 1000 Addition Subtraction Fractions - Doubles and Halves Multiplication Division</p> <p>Geometry 2D and 3D shapes Fractions of shapes Symmetry</p>	<p>Number Place Value to 1000 Addition Subtraction Multiplication Division Number Bonds Fractions - Doubles and Halves Fractions – $\frac{1}{2}$ $\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$ $\frac{1}{3}$</p> <p>Statistics Block Graphs Pictograms Tally Charts</p>	<p>Number Place Value to 1000 Multiplication Division Multiples Number Bonds Rounding Fractions – $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{3}$ equivalent</p> <p>Measurement Money Length Time – o'clock and half-past Time – five minute intervals</p> <p>Geometry Capacity 2D and 3D shapes Positional language</p> <p>Statistics Tally charts Block graphs</p>	<p>Number Place Value to 1000 Addition Subtraction Multiplication Division</p> <p>Measurement Time – five minute intervals Money</p> <p>Measurement Capacity Weight/Mass Temperature</p>

<p>3</p>	<p>Number Identify, represent and estimate numbers using different representations.</p> <p>Place value of each digit in a three digit number</p> <p>Compare and order numbers up to 1000 Read and write numbers up to 1000 in numerals and in words</p> <p>Count from 0 in multiples of 50 and 100</p> <p>Solve number problems and practical problems involving these ideas</p> <p>Addition and subtraction</p>	<p>Number Multiplication and division</p> <p>Measurement Length Perimeter</p>	<p>Number Multiplication and division</p> <p>Measurement Time - analogue clock, including using Roman numerals and 12-hour and 24-hour clocks</p> <p>Estimate and read time to the nearest minute</p> <p>Record and compare time in terms of seconds, minutes and hours</p> <p>Know the number of seconds in a minute and the number of days in each month, year and leap year</p> <p>Compare durations of events</p>	<p>Number Fractions – recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</p> <p>Count up and down in tenths</p>	<p>Number Fractions – equivalents, addition, subtraction, compare and order</p> <p>Geometry Properties of shape: angles of turn, right angles</p> <p>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines</p> <p>Draw 2-D shapes and make 3-D shapes using modelling materials</p> <p>Recognise 3-D shapes in different orientations and describe them</p>	<p>Measurement Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</p> <p>Measure using the appropriate tools and units, including comparing and using mixed units (1kg and 200g) and simple equivalents of mixed units (5m = 500cm)</p> <p>Add and subtract amounts of money to give change, using both £ and p in practical contexts</p> <p>Statistics Interpret and present data using bar charts, pictograms and tables</p> <p>Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables</p>
<p>4</p>	<p>Number Place value Column addition/subtraction</p>	<p>Number Division with remainders</p>	<p>Number Place value and multiplication Fractions</p>	<p>Number Multiplication/division</p>	<p>Number Negative number Roman numerals Finding the inverse</p>	<p>Number Fractions and decimals</p>

	<p>Multiplication</p> <p>Measurement Time 24/12 hour clock</p> <p>Geometry Length and perimeter Area</p>	<p>Measurement Time – calculating intervals Converting ml/l and kg/g Estimating length</p> <p>Geometry 3D shapes Co-ordinates</p>	<p>Decimals (money) Division (decimals)</p> <p>Geometry Direction and position symmetry</p>	<p>Measurement Telling the time</p> <p>Geometry 2D shapes Lines of symmetry Diff orientation</p> <p>Statistics Graphs, charts, continuous data – create and interpret</p>	<p>Measurement Capacity – measure and convert</p> <p>Geometry Angles – name, sort and measure</p>	<p>Measurement Time – calculating intervals</p> <p>Geometry Co-ordinates in four quadrants 3D shapes and their nets</p> <p>Statistics Create and interpret graphs</p>
<p>5 Class 2 lessons a week</p>	<p>Measurement Convert between different units of metric measure</p> <p>Geometry 3d shapes Distinguishing polygons</p> <p>Problem solving and reasoning Task 1</p>	<p>Measurement Perimeter Area</p> <p>Geometry Identify angles Draw given angles</p>	<p>Measurement Volume and capacity</p> <p>Geometry Reflection Translation</p> <p>Problem solving and reasoning Task 2</p>	<p>Measurement Converting units of time</p> <p>Geometry- Recap and review</p> <p>Statistics Line graphs</p>	<p>Measurement Equivalences between metric units/common imperial units</p> <p>Geometry- Recap and review</p> <p>Problem solving and reasoning Task 3</p>	<p>Measurement Using 4 operations to solve problems of measure</p> <p>Geometry- Recap and review</p> <p>Statistics Read and interpret timetables</p>
<p>5 Sets - HB</p>	<p>Number Read, write, order and compare number. Count forwards or backwards</p> <p>Negative numbers</p> <p>Rounding to 100,000</p> <p>Number problems</p>	<p>Number Solving addition and subtraction multistep problems</p> <p>Multiples and factors Prime and composite numbers</p> <p>Using formal written method to multiply 4 digits by 1 or 2 digits</p>	<p>Number Formal written method for division- up to 4 digits</p> <p>Multiply and divide numbers with decimals</p> <p>Multiplication and division problems</p> <p>Roman Numerals to</p>	<p>Number Compare and order fractions</p> <p>Identify, name and write equivalent fractions</p> <p>Recognise mixed numbers and improper fractions and convert from one form to the other</p>	<p>Number Read and write decimal numbers as fractions</p> <p>Recognise and use thousandths</p> <p>Round decimals. Read, write, order and compare numbers with up to three decimal places</p>	<p>Number Percentages</p> <p>Solve problems which require knowing percentage and decimal equivalents</p>

	<p>Formal addition and subtraction of 4 digit numbers</p> <p>Mental Addition and Subtraction</p> <p>Rounding</p>	Multiply and divide mentally	1000	<p>Add and subtract fractions with the same denominator</p> <p>Multiply proper fractions and mixed numbers by whole numbers</p>	Decimal Problem solving	
5 Sets - KE	<p>Number</p> <p>Place value, ordering numbers</p> <p>Count on in 10, 100, 1000's</p> <p>Rounding numbers</p> <p>Negative numbers</p> <p>Roman Numerals</p> <p>Add and sub – short written method</p> <p>Long and short multiplication</p>	<p>Number</p> <p>Long division</p> <p>One and two step word problems</p> <p>Factors/multiples</p> <p>Prime numbers/lowest common multiples</p> <p>Compare and order fractions</p> <p>Fraction of an amount</p>	<p>Number</p> <p>Add and sub fractions</p> <p>Multiply fractions</p> <p>Mixed to improper Improper to mixed</p> <p>Order and round decimals</p> <p>Add and subtract decimals</p> <p>% of an amount</p> <p>Multiply and divide by 10, 100 and 1000</p>	<p>Number</p> <p>Long division</p> <p>Multi step word problems</p> <p>Square numbers</p>		<p>Number</p> <p>Count in fractions</p> <p>Add decimals</p> <p>Subtract decimals</p> <p>Decimal word problems</p> <p>Problem solving and reasoning</p>
6 Class	<p>Geometry</p> <p>Identify 3-D shapes, including cubes and other cuboids, from 2-D representations</p> <p>Perimeter and area of regular and irregular</p>	<p>Measurement</p> <p>Time: Solve problems that involve converting between units of time</p> <p>Use all four operations in</p>	<p>Number</p> <p>Roman numerals</p> <p>Measurement</p> <p>Calculate areas</p> <p>Use formulae for the area of shapes</p>	<p>Measurement</p> <p>Solve problems involving the calculation and conversion of units of measure</p>	Revision of all areas	<p>Milkshake maths project:</p> <ul style="list-style-type: none"> -Designing packaging (measurement and nets) - Calculate volumes - Ratio and proportion

	<p>shapes as well as 3D shapes</p> <p>Solve problems that include the relationship between perimeter and area to find unknown lengths.</p> <p>Recognise and use square numbers and the notation for squared</p> <p>Angles: - Drawing angles - Estimate and compare angles</p>	<p>problems involving time, including conversions</p> <p>Read timetables and use these to solve problems</p> <p>Solve problems involving the calculation and conversion of units of measure</p> <p>Use, read, write and convert between standard units from a smaller unit to a larger unit,</p> <p>Know approximate conversions</p> <p>Geometry Radius, diameter and circumference</p> <p>Position and direction Draw and label a pair of axes in all four quadrants with equal scaling</p> <p>Draw and translate simple shapes on the coordinate plane, and reflect them in the</p>	<p>Statistics</p> <p>Interpret and construct line graphs and use these to solve problems</p> <p>Mean (averages)</p> <p>Connect work on angles, fractions and percentages to Interpret and construct pie charts and use these to solve problems</p> <p>Encounter and draw graphs relating two variables arising from enquiry</p>	<p>Geometry</p> <p>Draw 2-D shapes using given dimensions and angles.</p> <p>Recognise, describe and build simple 3-D shapes, including making nets.</p> <p>Compare and classify geometric shapes based on their properties</p>		<ul style="list-style-type: none"> - Measure ingredients - Calculate costs (percentages) - Money: four operations - Money: budgets
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		axes Identify, describe and represent the position of a shape following a reflection or translation				
6 Sets - EM	<p>Number Place value</p> <p>Read, write, order and compare number. Count forwards or backwards</p> <p>Rounding</p> <p>Negative numbers</p> <p>Prime numbers, factors, multiples, common factors, common multiples, highest common factor, lowest common multiple, prime factorisation</p> <p>Solve practical and number problems that involve all of the above</p> <p>Revise formal written methods of addition/subtraction</p>	<p>Number</p> <p>Formal written method of multiplication</p> <p>Solve multiplication and division multi-step problems in different contexts</p> <p>Fractions – Equivalents</p> <p>Solve problems involving the calculation of percentages</p> <p>Add and subtract fractions with different denominators and mixed numbers</p> <p>Multiply simple pairs of proper fractions</p> <p>Divide proper fractions by whole</p>	<p>Algebra</p> <p>Continue to solve missing number problems in different contexts</p> <p>Introduce the use of symbols and letters to represent variables and unknowns</p> <p>Write rules for number sequences algebraically and generalisations for number patterns</p> <p>Use simple formulae (link to science)</p> <p>Generate and describe linear number sequences</p> <p>Express missing number problems algebraically</p> <p>Solve number puzzles</p>	<p>Number</p> <p>Place value – up to 6 digits</p> <p>Solve problems involving addition, subtraction, multiplication and division.</p> <p>Fractions, Decimals and Percentages: - Simplify - Equivalences - + and – fractions - Multiply fractions - Divide proper fractions</p>	Revision of all areas	No sets – see class

	<p>Solve addition and subtraction multi-step problems in different contexts</p> <p>Multiply multi-digit numbers up to 4-digits by a two-digit whole number using the formal written method of long multiplication</p> <p>Divide numbers up to 4-digits by two-digit whole number using the formal written method of long division – with remainders</p>	<p>numbers</p>	<p>that involve algebra</p> <p>Ratio and Proportion</p> <p>Solve problems involving the relative sizes of two quantities, where missing values can be found using integer multiplication and division facts.</p> <p>Solve problems involving the calculation of percentages and the use of percentage comparisons.</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found.</p>			
6 Sets - KE	<p>Number</p> <p>Place value, ordering numbers to 10,000,000</p> <p>Rounding to 10,100,1000</p> <p>Negative numbers</p> <p>Add and sub – SWM</p>	<p>Number</p> <p>Factors</p> <p>Highest common factors</p> <p>Simplifying equivalent fractions</p> <p>Multiples/Lowest common multiples</p>	<p>Number</p> <p>Mixed fractions to improper</p> <p>Improper fractions to mixed</p> <p>% of an amount</p> <p>Order and round decimals</p>	<p>Number</p> <p>Multiply and divide by 10, 100 and 1000</p> <p>Multi step word problems</p> <p>Square numbers</p> <p>Algebra</p> <p>Working backwards</p>	Revision of all areas	No sets – see class

	Long and short multiplication Long division Two step/multi step word problems	Prime numbers Compare and order fractions Fractions of an amount Add and sub fractions Multiply fractions Divide fractions	Add and subtract decimals Multiply and divide - decimals	to solve sequence GENERAL REVISION – LED BY NEEDS OF GROUP		
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