



Maths Overview - PPS



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS Nursery	Counting and Recognising numerals Show up to five fingers – number rhymes Experiments with their own symbols and marks as well as numbers 2D shapes (names and properties) Making arrangements with shapes		Counting and Subitising – numbers 1-5 Problem solving, one more/one less, how many altogether Using shapes appropriately for the task Measures (size language – big/small, heavy/light, long/tall/short) Positional language		Counting irregular groups and Recognising numerals Select the correct numeral to represent quantity Solve real world mathematical problems with numbers up to 5 Pattern 2D and 3D shapes Orders items by size / weight / length / capacity	
EYFS Reception	Sorting and comparing Exploring 1,2,3 & 4	Representing numbers to 5 More and less	Exploring changes within 5 Introducing 6,7,8. Exploring measures	Comparing 9 and 10 Pattern and shape	Doubling, grouping and sharing To 20 and beyond	Spatial reasoning Exploring pattern and relationships
Year 1	Place value within 10	Addition and subtraction within 10 – number bonds to 10 Shape – recognise and name 2-D and 3-D shapes	Place value within 20. Addition and subtraction within 20 – number bonds to 20 Place value within 50	Length and height – measure and compare Mass and volume – measure and compare	Multiplication and division – solving one step problems using concrete and pictorial resources Fractions – investigating halves and quarters Position and direction – describing turns and positions	Place value within 100 Money – recognising and counting coins Time – sequence events in chronological order and tell and draw the time to the hour and half past
Year 2	Place value to 100 Addition and subtraction – number bonds up to 100	Addition and subtraction – addition and subtraction of two 2-digit numbers; using the inverse Properties of shape – identify, describe, compare and sort 2-D and 3-D shapes	Multiplication and division – multiplication and division facts for the 2s ,5s and 10s	Money – count, select and compare money; finding the total, difference and change Fractions – find, and recognise $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{3}{4}$	Time – tell, write and draw the time to 5 minutes, quarter past/ to Length and Height – measure, compare and order lengths Position and direction – describe movement and turns and order; arrange patterns and	Fractions – unit and non-unit fractions; finding equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ Mass, Capacity and Temperature - compare and order lengths, mass, capacity and temperature using g/kg, cm/m, ml/l and (°C)



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					sequences	Statistics – interpret and construct simple tally and pictograms
Year 3	Place value up to 1,000 Addition and Subtraction – using mental strategies	Addition and Subtraction – using column addition and subtraction strategies using numbers up to 3-digits Multiplication – multiplication and division facts of the 3s, 4s and 8s.	Multiplication and division – multiply and divide 2-digits by 1-digit Length and perimeter – finding equivalent lengths using cm/m, mm/cm and measuring and calculating a perimeter	Fractions – recognising, finding and writing fractions of a discrete set of objects Mass and capacity – add, subtract and compare mass using kg/g and ml/l	Fractions – finding and comparing fractions of an amount; adding and subtracting fractions with the same denominator; recognising equivalent fractions Money- add and subtract amounts of money to give change Time including the 24-hour clock – estimate and read the time to the nearest minute	Shape – draw and make 2-D and 3-D shapes, recognise and compare turns and angles; identify horizontal, vertical, parallel and perpendicular lines Statistics - Interpret and draw bar charts and tables
Year 4	Place Value up to 10,000 Addition and subtraction- adding and subtracting 3 and 4-digit numbers, inc. estimation	Multiplication and Division- Multiplication and division facts up to 12x12 and being able to multiply and divide by 10 and 100 Area- Calculating and comparing area	Multiplication and Division- Multiplication and division up to 12x12, learn to multiply and divide 2 and 3-digit numbers and to use corresponding number facts. Length and Perimeter- calculating lengths; adding and subtracting	Fractions- understanding what is a fraction; equivalent fractions; adding and subtracting 2 fractions; calculating fractions of quantity Decimals- Tenths and hundredths; divide 1 and 2-digit numbers by 10 and 100.	Decimals- Bonds to 10 and 100; writing, comparing, ordering and rounding decimals; halves and quarters Money – ordering and estimating money Time- Telling the time to 5 minutes and 1 minute; am and pm; 24 hour clock; comparing hours, minutes, seconds Years, months, weeks, days; converting analogue to digital and vice versa	Statistics- Interpret charts; make comparisons, understand the sum and difference; introduction to line graphs Properties of Shape- Angles; triangles; quadrilaterals; Symmetry; Horizontal and vertical lines Position and direction – coordinates and translations



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<p>Year 5</p>	<p>Place value up to 1,000,000 Addition and subtraction – developing mental strategies; adding and subtracting whole numbers with more than four digits; rounding to check answers</p>	<p>Multiplication and division – understanding multiples, factors, common factors, prime, square and cube numbers Fractions – finding and recognising equivalent fractions; comparing and ordering fractions; adding and subtracting fractions</p>	<p>Multiplication and division – understanding and applying long multiplication; dividing up to 4-digits by 1-digit Fractions – multiplying unit and on-unit fractions by integers; finding fractions of an amount and using fractions as operators</p>	<p>Decimals and percentages – rounding; ordering and comparing decimals and converting percentages as fractions and decimals Area and perimeter – area of rectangles; compound and irregular shapes Statistics – reading and interpreting line graphs; understanding timetables</p>	<p>Shape – comparing and ordering angles, measuring angles in degrees with a protractor; calculating lengths and angles in shapes Position and direction – translation and reflection using coordinates</p>	<p>Decimals – adding and subtracting decimals within and crossing 1; multiplying and dividing decimals by powers of 10 Converting units – metric and imperial units</p>
<p>Year 6</p>	<p>Place value up to 10,000,000 Addition and subtraction Multiplication and division – multiply and divide 4-digit numbers by a 2-digit number; solve multi-step problems; perform mental calculations involving all four operations using large numbers</p>	<p>Fractions – multiply and divide fractions Position and direction – translations and reflections within the four quadrants</p>	<p>Shape – drawing 2-D shapes using given dimensions and angles, make nets; compare and classify geometric shapes Converting units – converting metric and imperial units Area and perimeter and volume– finding the area of a triangle and a parallelogram; finding the volume of a cuboid Statistics</p>	<p>Algebra – understand how to find a rule, use simple formulae, solve equations; find pairs of values Fractions, decimals and percentages – using prior knowledge to problem solve Ratio and proportion – calculating ratio and scale factors</p>	<p>Problem solving and applying</p>	<p>Reasoning and problem solving</p>