



Maths Curriculum Overview 2020 - 2021

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Focus						
Nursery	Counting, number rhymes and songs Number discrimination (1-5) Counting concrete objects 2D shapes- recognising shapes around the environment	Counting, number rhymes and songs Counting concrete objects (1-10) Positional language Number recognition Matching numbers and quantity	Forming numbers Numbers in our environment Different sizes- Counting 2 groups of objects- Length, measuring, longer shorter	Counting rhymes and songs/ recognition/formation- Addition- one more- Addition – finding totals of two groups- One less- Number sentences using + and =	Doubling- Halving- Number problems- Time- clocks Measuring – using cubes Measuring- using a ruler	Number problems- missing numbers Addition and subtraction Scales and measurement- Picture making using 2D shapes
Concepts and skills taught	<ul style="list-style-type: none"> Children to practise counting objects from 1-5. Children to sing number songs Counting fingers, counting number of jumps, star jumps and squats Number around the environment- number hunt around the outdoor area- hide numbers 1-5 around the outdoor area and place them in order from smallest to biggest Focus activity in the water tray- children to catch as many fish/ducks as they can. Children to count each fish/duck and find the total number Children to listen to the 2D shape song- children to draw around each shape and write the initial sound of each shape 	<ul style="list-style-type: none"> children to practise counting by singing a variety of number songs children to count numbers by using concrete objects children to then match the number of objects to the correct numeral Children to identify the position of a concrete object using locational language number recognition using a variety of games and children to practise writing each number Children to use sorting shapes to put each shape in the correct colour bowl- Children to match the number of shapes in the bowl to the correct number by counting each shape carefully one at a time 	<ul style="list-style-type: none"> Children to review Number formation using the number poems children to find numbers around the environment and visually recognise them- children to then practise writing and identify number they are not sure about children to draw around 3 different sized circles and label them as small, medium, big children to use numicon shapes to count 2 different groups of holes and then count the total and write them in their books using mathematical terms- children to draw different sized beanstalks and measure them using cubes/ruler 	<ul style="list-style-type: none"> children to recap number formation and practise the ones they are not familiar with children to add one more to a number and write the total- children to use numicons to work out one more in their books- children to choose 2 number cards and find the total using sorting shape- children to record in book using numicon shapes children to use numicon shapes to work out one less by crossing out a circle – children to work out the total when you take one away children to practise a simple/addition and subtract sentences. 	<ul style="list-style-type: none"> children to practise doubling number using numicon shapes- children to practise writing a doubling number sentence children to practise halving using two bowls- children to half an even number by choosing a number card children to solve a both addition and subtraction problems using cubes- Children to be introduced to a clock- children to know the importance of time and why we need clocks. Children to familiarise themselves with time periods in the day and begin to understand about o'clock Adult to draw different sized beanstalks in their books and children to measure them using cubes and a ruler. 	<ul style="list-style-type: none"> Children to work out the missing number with a sequence of numbers in order to work out addition number sentences using concrete resources and then using dots/number lines in their books to work out addition number sentences using concrete resources and then using dots/number lines in their books children to explore heavy and lighter objects using scales- children to think about when we can use scales and why children to visit naming 2D shapes- children to create a picture using 2D shapes Begin work related to reception framework



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Reception	Identifying numbers/counting- Number value using dots and objects- One more- One less Largest/smallest numbers Ordering (3 numbers)-	Number recognition & value- One more using addition (+)- One less using take away (-) Doubling- Money Halving identifying and naming properties-	Addition Subtraction Time sequencing Number bonds of 5 and 10 Measures – length and height	Subtraction Adding Repeated addition Sharing Capacity and weight 3D shapes	Estimation Weight Length and height Time sequencing Number bonds to 20 Counting in 2s, 5s and 10s	Addition Subtraction Division Multiplication 2D and 3D shapes Fractions
Concepts and Themes Taught	<ul style="list-style-type: none"> children to practise their number formation and counting fingers on their hands- record in books children to write numbers in their books and draw the same number of dots for each number- children to use counters to practise counting children to work out one more of each number using cubes and recording it in their books- children to use number cards and then add one more to the number- children to write number sentences by the end of the week children to work out one less of each number using cubes and recording it in their books- children to use number cards and then work out one less of the number- children to write number sentences by the end of the week Children to choose number cards and work out the largest number from 2/3 numbers- then work out the smallest number from 2/3 numbers children to order 3 numbers that they choose from number cards in order from smallest to biggest- children to record them in books 	<ul style="list-style-type: none"> children to recall number recognition and matching them to cubes and counters- record in books using dots children to work out one more using number sentences- to work out one more using counters, number lines, cubes Children to work out one less using cubes, counters, number lines but recording it as number sentences children to work out double number sentences using numicon shapes, cubes and number lines -children to record it as number sentence children to practise recognising coins and then adding coins together- children to choose certain coins to make up a certain total children to half a number using 2 bowls and counters. children to practise naming 2D shapes and work out how many sides/corners each shape has- children to find shapes around the environment 	<ul style="list-style-type: none"> children to add 2 groups together and create number sentences by using cubes, ten frames, dots, number lines children to take away 2 numbers by using cubes, ten frames, dots, number lines- children to recognise that we need to write the bigger value away from the smaller value children to recognise that we do things according to time- children to practise telling the time and link it to familiar parts of the day for e.g. school starts at 9 o'clock. Children to identify the hour of a day on a clock. children to start of the week by working out part/part- whole to work out number bonds to 5 and then write number sentences using cube/counters. Children to then repeat activities and move onto number bonds to 10 children to investigate different lengths and heights of small/large objects. Children to use hands/feet to measure larger items such as tables, chairs and use cubes/ruler to measure smaller items in class- children to estimate each length before measuring and compare answers. 	<ul style="list-style-type: none"> children to take away 2 numbers by using cubes, ten frames, dots, number lines- children to recognise that we need to write the bigger value away from the smaller value children to add 2 groups together and create number sentences by using cubes, ten frames, dots, number lines children to practise repeated addition and counting in 2's- children to use cubes and number lines to work out repeated addition problems children to share even numbers between 2 and 3 people- children to practise halving and sharing between 3 using sorting shapes/cubes practical activities to get observations on weight and capacity and comparing weights identifying and naming properties- introduce 3D shapes to the children. Children to find 3D shapes around the environment and explore the properties of 3D shapes 	<ul style="list-style-type: none"> children to estimate the number of cubes in a bowl and then count the actual amounts children to compare weights by estimating with object is heavier and which is lighter children to estimate how long an object is by estimating first and then counting the correct number of cubes. Children to practise telling the time- recap o'clock and move onto half past/ Children to order times of the day in order children to practise finding number bonds to 20 by using ten frames – children to find the missing numbers of number bond number sentences Children to practise counting in 2s, 5s, 10s using hundred squares 	<ul style="list-style-type: none"> children to work out number sentences using the bar method- children to explore place value children to work out number sentences using the bar method- children to explore place value (tens and units) (Bar method) children to use dots and circles to work out division number sentences- children will have 2 bowls to divide by 2 and 3 to divide by 3 (number signs) children to work out multiplication number sentences by drawing bowls and dots- children to draw 2 dots in each bowl if working out multiples of 2 Children to identify features of 2D/3d shapes, talk about vertices, sides, faces, corners, edges, etc Children to draw lines of half and quarters on 2D shapes and know all parts need to be the same



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Focus:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	Place value, adding, subtracting and reasoning: measures	Place value, adding, subtracting and reasoning: measures	Place value, mental calculations; Addition and subtraction using written methods	Place value, mental calculations; Addition and subtraction using written methods	Place value and mental calculations; Addition and subtraction using written methods	Place value and mental calculations; Addition and subtraction using written methods
Concepts and skills taught:	<ul style="list-style-type: none"> Count, read and write numbers Solve addition and subtraction problems Record time in hours and minutes Number bonds 	<ul style="list-style-type: none"> Read and write numbers in words and numerals Solve addition and subtraction problems Solve problems involving measures Solve problems related to minutes and hours in a day 	<ul style="list-style-type: none"> Read, write and partition numbers into hundreds, tens one ones Add and subtract three-digit numbers Solve problems involving measures, money and missing numbers 	<ul style="list-style-type: none"> Compare, order, round and count in multiples of a numbers Solve problems involving time, money and measures Add and subtract problems involving four digit numbers. 	<ul style="list-style-type: none"> Solve problems using mental calculations Read, write, round, order and compare numbers up to 100 000. Solve multi-step addition and subtraction problems using a written method. 	<ul style="list-style-type: none"> Read, write, partition, order and compare numbers up to 10 000 000 and solve negative number problems Add, subtract, multiply and divide fraction with unlike denominators and identify equivalence and simplify. Solve multi-step problems involving measure, time and statistics using a written method.
Focus:	Number, Addition, Subtraction, Reasoning & Statistics					
Autumn 2	Mental and written methods for multiplication and division; fractions and shape	Mental and written methods for multiplication and division; fractions and shape	Mental and written methods for multiplication and division; Fractions, shape and co-ordinates	Mental and written methods for multiplication and division; Fractions, shape, co-ordinates and angles	Mental and written methods for multiplication and division; Fractions, shape, co-ordinates and angles	Mental and written methods for multiplication and division; Shape, co-ordinates and angles
Concepts and skills taught:	<ul style="list-style-type: none"> Count up in 2s, 5s and 10s Identify half and quarter of a shape Double and half numbers Share different amounts into equal groups Name different shapes 	<ul style="list-style-type: none"> To identify the inverse of a calculation To find the fraction of an amount ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$) Recognise, find and identify $\frac{1}{4}$, $\frac{1}{3}$, $\frac{2}{4}$ and $\frac{3}{4}$ of an object or shape. To solve problems involving measures and money Name and identify shape properties 	<ul style="list-style-type: none"> Count up in multiples of a number such as 3, 8 and 4 Multiply and divide a two-digit number with a one digit Describe regular and irregular shapes and plot co-ordinates Recognise different fractions, find the equivalent and add and subtract fractions 	<ul style="list-style-type: none"> Recall multiplication and division facts up to x 12 Identify factor pairs Add, subtract and find equivalent fractions in decimals Recognise and plot co-ordinates and measure angles 	<ul style="list-style-type: none"> List multiples and identify factors and prime numbers Multiply and divide by 10, 100 and 1000 Multiply and divide four digit numbers Name the properties of 2D and 3D shapes Add, subtract and multiply fractions and identify equivalence in the form fractions and decimals. 	<ul style="list-style-type: none"> Multiply and divide four digit numbers with 2 or more digits To solve multi-step problems involving all four operations Multiply and divide decimal numbers Identify missing angles in shape and identify unknown co-ordinates
Focus:	Number, Addition, Subtraction, Reasoning & Statistics					
Spring 1	Place value and measures; Mental and written methods for addition and subtraction	Place value and measures; Mental and written methods for addition and subtraction	Place value and measures; Mental and written methods for addition and subtraction	Place value and measures; Mental and written methods for addition and subtraction	Place value and measures; Mental and written methods for addition and subtraction	Place value, fractions and measures; Mental and written methods for addition and subtraction
Concepts and skills taught:	<ul style="list-style-type: none"> Count forwards and backwards across 100 Identify the value of coins and add and subtract them Identify number bonds up to 20 by adding and subtracting Draw the time on a clock face (half past) 	<ul style="list-style-type: none"> Compare and order numbers Recall addition and subtraction up to 100 using different methods Solve problems involving money and measures Draw and tell the time which is five minutes past/to and quarter to/past 	<ul style="list-style-type: none"> Read, write, order and compare numbers up to 1000 Add and subtract 3 digit numbers using a range of methods Solve problems involving time, measure and statistics 	<ul style="list-style-type: none"> Find the perimeter of rectilinear shapes Identify roman numerals up to 100 and recognise decimal equivalence of fractions Solve time problems and interpret and present discrete and continuous data 	<ul style="list-style-type: none"> Solve multi-step problems involving 4 digit numbers including measures Read and write roman numerals up to 1000 Solve timetable, chart and graph problems by comparing, finding the sum and difference 	<ul style="list-style-type: none"> Read, write and convert between units of measures To use formula to solve algebraic problems To solve problems involving mixed and improper fractions Interpret and construct data on pie charts and line graphs
Focus:	Number, Addition, Subtraction, Reasoning & Statistics					
Spring 2	Mental and written methods for multiplication and division; fractions. Shape properties and positional directions	Mental and written methods for multiplication and division; Fractions, shape properties and positional directions	Mental and written methods for multiplication and division; Fractions and shape properties and positional directions	Mental and written methods for multiplication and division; Fractions, shape properties and positional directions	Mental and written methods for multiplication and division. Fractions, decimals and percentages, geometry and positional directions	Mental and written methods for multiplication and division; Shape properties and positional directions
Concepts and Skills taught:	<ul style="list-style-type: none"> Double and halve and share and group numbers when dividing Name and recognise common 2d and 3d shapes Solve one step word problems 	<ul style="list-style-type: none"> Solve multiplication and division word problems using related facts Rotate shapes a quarter, half and three-quarters (clockwise and anti-clockwise) Describe and sort 2d and identify symmetry 	<ul style="list-style-type: none"> Recall 3, 4 and 8 times table using division facts Draw, make and identify properties of 2d and 3d shapes Solve missing number problems involving multiplication and division 	<ul style="list-style-type: none"> Convert between units of measures Compare shapes and identify lines of symmetry Describe position of shapes on quadrant and describe the translation 	<ul style="list-style-type: none"> Identify angles in shapes, on a straight line and around a point Identify and describe translations and reflections Read and write decimals as fraction equivalents 	<ul style="list-style-type: none"> Multiply and divide four digit numbers and identify remainders and decimal equivalent Describe and identify positions on a four quadrant grid Recognise, describe, draw and solve problems related to 2d and 3d shapes
Focus:	Number, Addition, Subtraction, Reasoning & Statistics					
Summer 1	Mental and written methods for addition and subtraction; Place value and measures	Mental and written methods for addition and subtraction; Place value and measures	Mental and written methods for addition and subtraction; Place value and measures	Mental and written methods for addition and subtraction and measures	Mental and written methods for addition and subtraction; Number problems	Mental and written methods for addition and subtraction; Number, fractions, percentages and decimals.
Concepts and Skills taught:	<ul style="list-style-type: none"> Compare, describe and measure different objects for mass and length Recognise and draw a half and quarter of a shape/object Tell time up to an hour, thirty minutes and draw hands on clock faces 	<ul style="list-style-type: none"> Mentally solve addition and subtraction calculations Add subtract units of different measures Add and subtract three-digit numbers and solve related problems 	<ul style="list-style-type: none"> Interpret data and present information pictograms, charts and graphs Find the difference between different units of measures Solve three-digit problems including finding the missing number Tell the time on a roman numerals clock and identify time differences 	<ul style="list-style-type: none"> Mentally add, subtract and multiply and be able to explain reasoning Solve two-step addition and subtraction problems Read, write and convert times in 12 and 24 hour clock time 	<ul style="list-style-type: none"> Add and subtract fractions with different denominators Calculate the perimeter using algebraic equations Solve multi-step word problem involving different measures 	<ul style="list-style-type: none"> Perform mental calculations with mixed operations and large numbers Convert units of measures across length, mass and capacity Calculate the value of different shapes and objects
Focus:	Multiplication, Division, Fractions & Geometric Reasoning					
Summer 2	Mental and written methods for multiplication and division. Fractions, shape properties and positional directions	Mental and written methods for multiplication and division; Fractions and shape properties and positional directions	Mental and written methods for multiplication and division; Fractions, shape properties and positional directions	Mental and written methods for multiplication and division; Fractions, decimals, shape properties and positional directions	Mental and written methods for multiplication and division. Fractions, percentages and decimals. Shape properties and positional directions	Transitional tasks to secondary school involving number, fractions, decimals and percentages
Concepts and Skills taught:	<ul style="list-style-type: none"> Scale up and down numbers Solve money problems Describe the position and movement 	<ul style="list-style-type: none"> Find a combination of coins that total an amount Describe 3d shapes using faces, edges and vertices Describe positional movements of shapes Find the equivalent fractions of numbers 	<ul style="list-style-type: none"> Identify parallel and perpendicular lines Solve problems involving multiplication and division Draw and identify properties of shape and describe the change in orientation 	<ul style="list-style-type: none"> Estimate, compare and calculate problems involving measures and money Recognise and write decimal equivalents Plot points to create specified polygons Identify and draw acute and obtuse angles 	<ul style="list-style-type: none"> Solve multi-step multiplication and division problems including scaling up Draw and measure given angles to nearest degree Identify, and describe 3d shapes from 2d shape representations 	<ul style="list-style-type: none"> Prime numbers/factors Divisibility rules Relationship between fraction, decimals and percentages Equivalence and simplifying fractions Solve algebraic and multi-step word problems