

The Three Schools

Maths Curriculum Map

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception Number	Subitising Perceptually subitise within 3 identify sub-groups in larger arrangements create their own patterns for numbers within 4 practise using their fingers to represent quantities which they can subitise experience subitising in a range of contexts, including temporal patterns made by sounds. Cardinality, ordinality and counting relate the counting sequence to cardinality, seeing that the last number spoken gives the number in the entire set develop their knowledge of the counting sequence, including through rhyme and song develop 1:1 correspondence, including by coordinating movement and counting develop an understanding that anything can be counted, including actions and sounds explore a range of strategies which support accurate counting. Composition	Subitising Subitise within 5, perceptually and conceptually, depending on the arrangements. Cardinality, ordinality and counting Continue counting skills explore the cardinality of 5, linking this to dice patterns and 5 fingers on 1 hand begin to count beyond 5 begin to recognise numerals, relating these to quantities they can subitise and count. Composition Explore the concept of 'wholes' and 'parts' by looking at a range of objects that are composed of parts, some of which can be taken apart and some of which cannot Explore the composition of numbers within 5. Comparison Compare sets using a variety of strategies, i 'just by looking', by subitising and by matching Compare sets by matching, seeing that every object can be matched to one in the other set, they contain	Subitising Subitising by continuing to explore patterns within 5, including structured and random arrangements explore a range of patterns made by some numbers greater than 5, including structured patterns in which 5 is a clear part experience patterns which show a small group and '1 more' continue to match arrangements to finger patterns. Cardinality, ordinality and counting verbal counting to 20 and beyond develop object counting skills, using a range of strategies link counting to cardinality, including using their fingers to represent quantities between 5 and 10 order numbers, linking cardinal and ordinal representations of number. Composition Composition of 5 and practise recalling	Subitising Explore symmetrical patterns, in which each side is a familiar pattern, linking this to 'doubles'. Cardinality, ordinality and counting consolidate their understanding of cardinality, working with larger numbers within 10 become more familiar with the counting pattern beyond 20. Composition Composition of odd and even numbers, looking at the 'shape' of these numbers Link even numbers to doubles Explore the composition of numbers within 10. Comparison Compare numbers, reasoning about which is more, using both an understanding of the 'howmanyness' of a number, and its position in the number system.	Subitising Practise familiar subitising arrangements, including those which expose '1 more' or 'doubles' patterns use subitising skills to enable them to identify when patterns show the same number but in a different arrangement, or when patterns are similar but have a different number subitise structured and unstructured patterns, including those which show numbers within 10, in relation to 5 and 10 be encouraged to identify when it is appropriate to count and when groups can be subitised. Cardinality, ordinality and counting develop verbal counting to 20 and beyond, from different starting numbers develop confidence and accuracy in both verbal and object counting. Composition Explore the composition of 10. Comparison Order sets of objects, linking this to their	Subitising Consolidate their understanding of concepts previously taught through working in a variety of contexts and with different numbers. Cardinality, ordinality and counting Revisit concepts previously taught Composition Rehearse previous learning Comparison Practise skills in different contexts.

	see that all numbers can be made of 1s compose their own collections within 4. <u>Comparison</u> Understand that sets can be compared according to a range of attributes, including by their numerosity Use the language of comparison, including 'more than' and 'fewer than' Compare sets 'just by looking'.	the same number and are equal amounts.	'missing' or 'hidden' parts for 5 Composition of 6, linking this to familiar patterns, including symmetrical patterns begin to see that numbers within 10 can be composed of '5 and a bit' <u>Comparison</u> Compare sets using the language of comparison, and play games which involve comparing sets Compare sets by matching, identifying when sets are equal Explore ways of making unequal sets equal		understanding of the ordinal number system	
Reception Shape Space and Measures	<u>Measurement :Time</u> Learn days of the week in context of class timetable and responsibilities (On-going) <u>Measurement: Length/Weight and Volume</u> Describe objects and volume learning/ using vocabulary long, tall, high, short, heavy, light, full, empty <u>Shape and Space</u> Sort 2D shapes Match 2D shapes. Name and describe circles, squares and triangles, rectangles Describe position Behind, in front, next to, in between	<u>Measurement:Time</u> Count actions carried out in a minute (less than 20). <u>Measurement Length/Weight and Volume</u> Compare 2 objects by height, length, weight, volume <u>Measurement- Money</u> Use money in role play (On-going) <u>Shape and Space</u> Sort and describe 3D shapes Use 3D shapes to print a repeating patterns (ABC)	<u>Measurement Length/Weight and Volume</u> Indirect comparison; ordering 3 items by height, length, weight, volume Continue a repeating ABC pattern with three colours/shapes/object s. <u>Shape and Space</u> Sort 3D shapes according to properties Continue a repeating ABC pattern with three colours/shapes/object Recognise symmetrical patterns, rotating or flipping shapes	<u>Measurement:Time</u> Learn months of the year Time: 1 minute is 60 seconds <u>Measurement Length/Weight and Volume</u> Count non-standard measures (cubes, teaspoons) to match length, height, weight, volume <u>Measurement- Money</u> Recognise 1p, 2p, 5p and 10p coins <u>Shape and Space</u> Name and describe cube, cuboid, cylinder, sphere, cone and pyramid. <u>Data</u> Sorting (Recycling)	<u>Measurement Length/Weight and Volume</u> Count non-standard measures (cubes, teaspoons) to compare length, height, weight, volume <u>Measurement- Money</u> Recognise all coins. <u>Shape and Space</u> Make own ABB and ABBC patterns Spot errors in the sequence Create symmetrical patterns	<u>Measurement Length/Weight and Volume</u> Estimate, measure, weigh and compare and order objects <u>Shape and Space</u> Make a continuous (circular) repeating pattern Combine shapes to make new shapes Follow directions including left and right <u>Data</u> Tallying Create and interpret block Graphs (Journeys-cars)

	Continue a repeating AB pattern Data Create and interpret simple pictogram (Ourselves)					
Year 1	Place Value Count to ten, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers to 10 in numerals and words. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line Use the language of: equal to, more than, less than (fewer), most, least. Making Connections and application Data-tables to sort. Addition and Subtraction Represent and use number bonds and related subtraction facts within 10 Read, write and interpret mathematical statements	Addition and Subtraction (Continue for 1 week) Place Value Count to twenty, forwards and backwards, beginning with 0 or 1, from any given number. Count, read and write numbers to 20 in numerals and words. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. Shape 2D and 3D Recognise and name common 2-D shapes, including: (for example, rectangles (including	Addition and Subtraction Represent and use number bonds and related subtraction facts within 20 Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Add and subtract one-digit and two digit numbers to 20, including zero. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$ Making Connections and application Place value	Measurement: Length and Height Measure and begin to record lengths and heights. Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tall/short, double/half) Making Connections and application Place Value Data Measurement: Weight and Volume Measure and begin to record mass/weight, capacity and volume. Compare, describe and solve practical problems for mass/weight: [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example,	Multiplication and division Count in multiples of twos, fives and tens. Solve one step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. Making Connections and application Addition and Subtraction Number: Fractions Recognise, find and name a half as one of two equal parts of an object, shape or quantity. Recognise, find and name a quarter as one of four	Measurement: Time Compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later] Measure and begin to record the following for time (hours, minutes, seconds) Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] Recognise and use language relating to dates, including days of the week, weeks, months and years Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. Making Connections and application

	involving addition (+), subtraction (–) and equals (=) signs. Add and subtract one digit numbers to 10, including zero. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems.	squares), circles and triangles) <i>In different orientations and relate to everyday objects</i> Recognise and name common 3-D shapes including: (for example, cuboids (including cubes), pyramids and spheres) <i>In different orientations and relate to everyday objects</i> <u>Making Connections and application</u> Addition- problem solving- how many sides on 3 triangles etc Data-sorting	<u>Place Value</u> Count to 50 forwards and backwards, beginning with 0 or 1, or from any number. Count, read and write numbers to 50 in numerals. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. Count in multiples of twos, fives and tens.	full/empty, more than, less than, half, half full, quarter] <u>Making Connections and application</u> Place Value	equal parts of an object, shape or quantity. <u>Making Connections and application</u> Measures-Half/whole Data- sorting <u>Geometry</u> Describe position, direction and movement, including whole, half, quarter and three quarter turns. <u>Making Connections and application</u> Fractions	<u>Fractions</u> Data <u>Place Value</u> Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers to 100 in numerals. Given a number, identify one more and one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than, most, least. <u>Making Connections and application</u> Addition and Subtraction <u>Money</u> Recognise and know the value of different denominations of coins and notes. <u>Making Connections and application</u> Place Value Addition and Subtraction
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						Multiplication and division. Data
Time is on-going and is covered in Daily Maths sessions Number facts are revised throughout the year in daily maths. Subitising, Composition, Cardinality, ordinality and counting and comparison are covered throughout the year in daily maths						
Year 2	Place Value Read and write numbers to at least 100 in numerals and in words. Recognise the place value of each digit in a two digit number (tens, ones) Partition two digit numbers in more than one way Identify, represent and estimate numbers using different representations including the number line. Compare and order numbers from 0 up to 100; use <, > and = signs. Use place value and number facts to solve problems. Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward. Addition and Subtraction	Addition and Subtraction (Complete -1 week) Making Connections and application Place Value Multiplication and Division Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.	Geometry: Shape Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid.] Compare and sort common 2-D and 3-D shapes and everyday objects. Making Connections and application Addition Multiplication Money	Measures Length Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) to the nearest appropriate unit, using rulers. Compare and order length/height and record the results using >, < and = Making Connections and application Place Value Addition and Subtraction Multiplication and division. Data-Statistics Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.	Measures: Mass and Capacity, Temperature Choose and use appropriate standard units to estimate and measure: temperature (°C) capacity (litres/ml) mass (kg/g); to the nearest appropriate unit, using scales, thermometers and measuring vessels. Compare and order mass, volume/capacity and record the results using >, < and = Making Connections and application Place Value Addition and Subtraction Multiplication and division. Revise place value and number.	Revise areas that need to be further embedded. Prepare children for year 3 by looking at Place Value over 100.

	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers. Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods. Recognise and use the inverse relationship between addition and subtraction and use this to	Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. Making Connections Addition and subtraction. Place Value	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins that equal the same amounts of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. Making Connections and application Place Value Addition and Subtraction Multiplication and division. Number: fractions Recognise, find, name and write fractions $\frac{1}{2}$ $\frac{1}{3}$ $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity. Write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the	Ask and answer questions about totalling and comparing categorical data. Making Connections and application Addition and Subtraction Measures: Time Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time. Making Connections and application Addition and Subtraction Multiplication Fractions Geometry: Position and direction		
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	check calculations and solve missing number problems. Making Connections and application Place Value		equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ Making Connections Shape Multiplication and division. Making Connections Fractions Time	Use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise). Order and arrange combinations of mathematical objects in patterns and sequences		
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Time is on-going and is covered in Daily Maths sessions
Number facts are revised throughout the year in daily maths.

Subitising, Composition, Cardinality, ordinality and counting and comparison are covered throughout the year in daily maths

Year 3	Place Value Identify, represent and estimate numbers using different representations. Find 10 or 100 more or less than a given number. Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). Compare and order number up to 1,000.	Addition and Subtraction (Complete 1 week) Multiplication and division. Count from 0 in multiples of 4, 8, 50 and 100. Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	Multiplication and division (Complete 2 weeks) Money Add and subtract amounts of money to give change, using both £ and p in practical contexts Making Connections Addition and subtraction.	Fractions Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 Recognise, find and write fractions of a discrete set of objects: unit fractions and non unit fractions with small denominators Recognise and use fractions as numbers: unit fractions	Measures-Length Measure, compare, add and subtract: lengths (m/cm/mm) Measure the perimeter of simple 2-D shapes Making Connections Addition and subtraction. Multiplication and division Place Value	Shape Draw 2-D shapes and make 3-D shapes using modelling materials Recognise 3-D shapes in different orientations and describe them Recognise angles as a property of shape or a description of a turn Identify right angles, recognise that two right angles make a half-turn, three make three quarters
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	Read and write numbers up to 1,000 in numerals and in words. Solve number problems and practical problems involving these ideas. Count from 0 in multiples of 4, 8, 50 and 100 Add and subtract Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three-digit number and hundreds. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Estimate the answer to a calculation and use inverse operations to check answers. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. Making Connections and application Place Value	Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two digit numbers times one-digit numbers, using mental and progressing to formal written methods. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objectives. Making Connections and application Place Value Addition and Subtraction	Multiplication and division Place Value Data-Statistics Interpret and present data using bar charts, pictograms and tables Solve one-step and two-step questions [for example ‘How many more?’ and ‘How many fewer?’] using information presented in scaled bar charts and pictograms and tables Making Connections and application. Addition and subtraction. Revise Addition/Subtraction/ Multiplication and division.	and non-unit fractions with small denominators Recognise and show, using diagrams, equivalent fractions with small denominators Add and subtract fractions with the same denominator within one whole Eg $5/7 + 1/7 = 6/7$ Compare and order unit fractions, and fractions with the same denominators Solve problems that involve all of the above. Making Connections Addition and subtraction. Multiplication and division	Measures- Time Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks Estimate and read time with increasing accuracy to the nearest minute; Record and compare time in terms of seconds, minutes and hours Use vocabulary such as o’clock, a.m./p.m., morning, afternoon, noon and midnight Know the number of seconds in a minute and the number of days in each month, year and leap year Compare durations of events [for example to calculate the time taken by particular events or tasks]. Making Connections Addition and subtraction. Multiplication Fractions	of a turn and four a complete turn Identify whether angles are greater than or less than a right angle Identify horizontal and vertical lines and pairs of perpendicular and parallel lines Making Connections Fractions Measures-Capacity and Mass Measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml) Making Connections Addition and subtraction. Multiplication and division Place Value
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