



Nursery
White Rose Maths

Maths Overview

Autumn 1

Autumn 2

Spring 1

Spring 2

Summer 1

Summer 2

Comparison More than, fewer than, same. Collect objects to compare amounts	Comparison Compare and sort collections Notice when two collections are the same	Comparison Match, sort and compare Compare up to 5 different objects	Shape, space and measure Match, talk, push and pull Match simple shapes	Shape, space and measure Starting to puzzle Complete shape-match puzzles	Pattern My own pattern Continue AB patterns
Make simple comparisons of amounts	Make collections of small objects the same	Compare by matching	Push some shapes and blocks together	Complete simple jigsaws	Create their own AB patterns
Look for collections of large and small amounts	Make collections of large objects the same	Make the same set by matching	Make simple arrangements	Match objects to pictures	Notice an error in a pattern
Compare and talk about large and small amounts	Recognise two collections are the same using large and small objects	Match by type	Talk about arrangements	Match objects to shadows	Build constructions with simple enclosures
Make large and small collections	Make collections the same using large and small objects	Recognise attributes of objects	Follow simple routes outside	Explore objects and small world from different positions	Copy simple repeated constructions
Make collections the same	Sort and talk about their own collections	Begin to sort some objects to a type	Follow toys around a simple route	Make simple routes in small world with lines and curves	Begin to sequence some events
Shape, space and measure Explore and build with shapes and objects. Explore and play with shapes	Shape, space and measure Explore position and space Respond to simple language of position	Shape, space and measure Explore position and routes Explore shape resources	Pattern Lead on own repeats Join in fully with sequences and songs	Pattern Making patterns together Sing their own sings independently	Counting Stop at 1, 2, 3, 4, 5 Count out up to 5 objects from a larger group
Show interest in simple difference between shapes	Arrange blocks in a chosen position	Explore more complex inset jigsaws	Sing rhymes independently	Clap in time to a beat	Explore counting to 5 in different ways
Put shapes and blocks into position	Select shapes for a space	Talk about simple positions	Lead sequences and songs	Make and talk about movement patterns	Verbally count to a given number
Select shapes for a reason	Recognise when 2 objects are the same shape	Move into simple positions	Read on in familiar repeating stories	Talk about objects in patterns and arrangements	Label objects with numerals
Begin to explore and describe natural shapes and objects	Explore and describe shapes and objects	Move through positions	Copy art-based simple patterns	Copy AB patterns with support	Independently show fingers to 5
Find and collect objects for a purpose	Sort shapes and objects into simple categories	Follow simple small-world routes	Explore own line and repeating patterns in art	Continue AB patterns with support	Begin to make marks to represent quantities
Pattern Explore repeats. Listen to repeats in songs and stories	Pattern Join in with repeats Join in with repeated actions in songs	Pattern Explore own first patterns Explain simple pattern arrangements	Counting Take and give 1, 2, 3 Choose a group to count	Counting Show me 5 Sing rhymes to 5 and join in with movements	
Start to join in songs with repeats	Join in with repeats in songs and stories	Make roads and bridges with intent	Take out 2 from a group	Move props to 5	
Start to join in with repeats from stories	Sing some refrains independently	Choose blocks to copy simple creations	Take out 3 from a group	Move proper back from 5	
Clap along to songs	Have a sense of daily routines	Make simple line patterns with objects	Give other 2 items	Show fingers to 5	
Make line patterns with own sequences	Say what happens next	Make simple pattern arrangements	Give others 3 items	Begin to count 5 objects with one-to-one correspondence	
Choose blocks to build roads and towers.	Make arrangements in art	Show an interest in patterns and shapes	Count 3 objects with one-to-one correspondence	Match numerals to quantities when acting out songs	
		Counting Move and label 1, 2, 3 Make actions when saying counting words	Subitising Make games and actions Match dot patterns		
		Move fingers when saying counting words	Be introduced to subitising games		
		Count out up to 3 objects from rhymes	Play subitising games		
		Notice number symbols as labels	Copy sets of sounds		

	<p>Counting Hear and say number names. Hear some numbers names</p> <p>Join in saying some number names</p> <p>Model saying number names in order</p> <p>Practise saying number names in order</p> <p>Join in stable order counting forwards</p> <p>Join in stable order counting backwards</p> <p>Subitising I see 1, 2, 3 Notice images in books</p> <p>Respond to “I see 1, 2, 3”</p> <p>Copy “I see 1, 2, 3”</p> <p>Point to 1, 2, 3</p> <p>Recognise 1, 2, 3 in well-known tales</p>	<p>Counting Begin to order number names. Model saying 1, 2 and 3 in play</p> <p>Copy the sequence of 1, 2 and 3</p> <p>Copy fingers to represent 1, 2 and 3</p> <p>Begin to count actions</p> <p>Say number names in order</p> <p>Begin to recognise that anything can be counted</p> <p>Subitising Show me 1, 2, 3 Copy fingers to show 1</p> <p>Copy fingers to show 2</p> <p>Copy fingers to show 3</p> <p>Show 1 finger when seeing 1 item in stories</p> <p>Show 2 or 3 fingers when seeing 2 or 3 in stories</p> <p>Show 1, 2, 3 on fingers when asked</p>	<p>Label amounts as 1 and not 1</p> <p>Label amounts as 1, 2 or 3</p> <p>Subitising Talk about dots Become familiar with dot patterns</p> <p>Say when there is 1 dot</p> <p>Say when there are 2 dots</p> <p>Recognise 1 and 2 in different arrangements</p> <p>Say when there are 3 dots</p> <p>Recognise 1, 2 and 3 in different arrangements</p>	<p>Listen to and represent sounds with fingers</p> <p>Listen to and represent sounds with resources</p>		
Reception Number- NCETM: Mastering Number	<p>Subitising within three.</p> <p>Focus on counting skills.</p> <p>Explore how all numbers are made of 1's.</p> <p>Focus on composition of 3 and 4</p> <p>Subitise objects and sounds.</p> <p>Comparison of sets- ‘just by looking’.</p> <p>Use the language of comparison: <i>more than and fewer than</i>.</p>	<p>Focus on counting skills.</p> <p>Focus on the ‘five-ness of 5’ using one hand and the die pattern for 5.</p> <p>Comparison of sets- by matching.</p> <p>Use the language of comparison: <i>more than, fewer than, an equal number</i>.</p> <p>Explore the concept of ‘whole’ and ‘part’.</p> <p>Focus on the composition of 3, 4 and 5.</p> <p>Practise object counting and skills.</p> <p>Match numerals to quantities within 10.</p> <p>Verbal counting beyond 20.</p>	<p>Subitise within 5 focusing on die patterns.</p> <p>Match numerals to quantities within 5.</p> <p>Counting- focus on ordinality and the ‘staircase’ pattern.</p> <p>See that each number is one more than the previous number.</p> <p>Focus on 5.</p> <p>Focus on 6 and 7 as ‘5 and a bit’.</p> <p>Compare sets and use language of comparison: <i>more than, fewer than, an equal number to</i></p> <p>Make unequal sets equal.</p>	<p>Focus on the ‘staircase’ pattern and ordering numbers.</p> <p>Focus on ordering of numbers to 8.</p> <p>Use language of <i>less than</i>.</p> <p>Focus on 7.</p> <p>Doubles- explore how some numbers can be made with 2 equal parts.</p> <p>Sorting number according to attributes- odd and even.</p>	<p>Counting- larger sets and things that cannot be seen.</p> <p>Subitising- to 6, including in structured arrangements.</p> <p>Composition- ‘5 and a bit’</p> <p>Composition- of 10.</p> <p>Comparison- linked to ordinality.</p> <p>Play track games.</p>	<p>Subitise to 5.</p> <p>Introduce the rekenrek.</p> <p>Review and Assess: Automatic recall of bonds to 5.</p> <p>Composition of numbers to 10.</p> <p>Comparison.</p> <p>Number patterns</p> <p>Counting</p>

<div> <div>Reception</div> <div>White rose Maths</div> </div>	Match, Sort and Compare Match objects and pictures Identify and sort sets, exploring sorting techniques Create sorting rules Compare amounts Measure and Pattern Compare mass, size and capacity. Explore, copy, continue and create simple patterns Circles and Triangles Identify, name and compare circles and triangles Explore shapes in the environment Describe positions Shapes with 4 Sides Identify and name shapes with four sides Combine shapes with 4 sides Explore shapes in the environment Order and sequence familiar events		Mass and Capacity Compare mass Find a balance Explore capacity Compare capacity Length, Height and Time Explore and compare length and height Talk about time Order and sequence time Explore 3-D Shapes Recognise and name 3-D shapes Find 2-D shapes within 3-D shapes 3-D shapes in the environment Identify more complex patterns Copy and continue patterns Patterns in the environment		Manipulate, compose and decompose Select shapes for a purpose Rotate and manipulate shapes, explaining their arrangements Compose and decompose shapes Copy 2-D shape pictures Find 2-D shapes within 3-D shapes Visulise, Build and Map Identify units of repeating patterns Create and explore own pattern rules Replicate and build scenes and constructions Visulise from different positions Describe positions Give instructions to build Explore mapping Make Connections Patterns and relationships	
	Place Value (within 10) <ul style="list-style-type: none"> Sort and count objects Recognise numbers as words Count on from any number Identify one more and one less of a given Count backwards within 10 Compare groups by matching Use the language of ‘fewer, more, same, less than, greater than, equal to’ Compare numbers Order objects and numbers Use a number line Number – Addition and Subtraction (within 10) <ul style="list-style-type: none"> Develop knowledge of part – whole models 	Number – Addition and Subtraction (within 10) <ul style="list-style-type: none"> Number bond facts within 10 Number bond facts to 10 Addition (add together, add more, addition problems) Subtraction (find a part, take away, how many left?) Subtract on a number line Geometry – Shape <ul style="list-style-type: none"> Recognise and name common 2D and 3D shapes. Make patterns with 2D and 3D shapes 	Place Value – (within 20) <ul style="list-style-type: none"> Read, write and understand number 10- 20. Identify one more and one less than a given number. Complete a number sequence (forwards and backwards) 0-20 Estimate on a number line to 20 Order numbers to 20 Compare numbers to 20 Addition and Subtraction – (within 20) <ul style="list-style-type: none"> Add within 20 Number bond facts 20. Double numbers Near doubles Subtract within 20 Solve simple one-step problems involving addition and subtraction. Solve missing number problems 	Place Value – (within 50) <ul style="list-style-type: none"> Count from 20 to 50 Count in steps of 10 (20 to 50) Recognise the place value of numbers beyond 20 (tens and ones) Order numbers to 50 1 more than 1 less than Measurement – Length and Height <ul style="list-style-type: none"> Compare lengths and heights Measure length using objects Measure length in cm Measurement – Mass and Volume <ul style="list-style-type: none"> Use the language ‘heavier, lighter, full and empty’ Compare and measure mass, volume and capacity using non- 	Number – Multiplication and Division <ul style="list-style-type: none"> Count in steps of 2, 5 and 10 Make equal groups Add equal groups Make arrays Make doubles Make equal groups (grouping) Make equal groups (sharing) Number - Fractions <ul style="list-style-type: none"> Recognise, find and name a half as one of two equal parts of a quantity Recognise, find and name a quarter as one of four equal parts of a quantity. Geometry – Position and direction <ul style="list-style-type: none"> Describe position, direction and movements 	Number - Place Value (within 100) <ul style="list-style-type: none"> Count to 100 by making tens Count forwards and backwards within 100 Partition numbers within 100 (tens and ones) Compare and order numbers within 100 1 more than 1 less than Measurement – Money <ul style="list-style-type: none"> Recognise and know the value of different coins and notes. Solve practical problems relating to money. Measurement – Time <ul style="list-style-type: none"> Use the language ‘before and ‘after’ Sequence events in chronological order Recognise and use language relating to

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	<ul style="list-style-type: none"> Read, write and interpret mathematical statements (+, - and =) 			standard units of measure	using half, quarter and three-quarter turns.	dates, including days of the week, weeks, months and years. <ul style="list-style-type: none"> Tell the time to the hour Tell the time to half hour Solve practical problems relating to time.
	Number - Place Value <ul style="list-style-type: none"> Counting forwards and backwards to 20, 50 Count numbers to 100 by making 10s Recognise the place value of each digit in a 2-digit number (Tens/Ones) Use a place value chart Partition numbers to 100 Read and write numbers to 100 in numerals and in words Flexibly partition numbers to 100 Write numbers to 100 in expanded form Explore numbers to 100 on a number line Estimate numbers on a number line Use place value and number facts to solve problems Compare objects and numbers to 100 Count in multiples of 2, 5 and 10 Count in multiples of 3 Number - Addition and Subtraction <ul style="list-style-type: none"> Addition and subtraction to 10 (bonds) Addition and subtraction to 20 (bonds) Compare number sentences Bonds to 100 (tens) Add and subtract 1 Add by making 10 Add three 1-digit numbers 	Number - Addition and Subtraction <ul style="list-style-type: none"> Add take away numbers not crossing 10 Add and subtract numbers crossing 10 10 more than 10 less than Add and subtract numbers using concrete objects, pictorial representations and mentally including: a 2-digit number and ones; a 2-digit number and tens; 2, 2-digit numbers Compare number sentences Missing number problems Geometry – properties of shapes <ul style="list-style-type: none"> Recognise 2D and 3D shapes Describe the properties of 2d shapes (including the number of sides and vertices) Draw 2D shapes Draw Lines of symmetry Use lines of symmetry to complete shapes Sort <u>2D shapes</u> Describe the properties of 3D shapes, including the number of edges, vertices and faces Sort 3D shapes Make patterns with 2D and 3D shapes 	Measurement – Money <ul style="list-style-type: none"> Recognise coins (p and £) Recognise notes Count money (coins and notes) Add coins together Make amounts/totals Use p and £ sign Compare money Understand the value of coins Find the difference/give change 2 Step word problems Number - Multiplication and Division <ul style="list-style-type: none"> Recognising, making and adding equal groups Complete multiplication sentences Use arrays Making and sharing equal groups 2 Times tables Divide by 2 Double numbers Odd and even numbers Times table 5, 10 Divide 5, 10 	Measurement - Length and Height <ul style="list-style-type: none"> Measure length (cm and M) Compare length and height Order lengths and heights Complete 4 operations (+, -, x /) with length and heights Measurement – Mass, capacity and temperature <ul style="list-style-type: none"> Compare mass Measure in g and kg Complete 4 operations (+, -, x /) with mass Compare volume and capacity Measure in ml and l Complete 4 operations (+, -, x /) with volume and capacity Develop understanding of temperature Measure and compare temperature in C 	Number – Fractions <ul style="list-style-type: none"> Work with parts and wholes Make equal parts Recognise and find half Recognise and find a quarter Recognise and find a third Develop understanding of unit and non-unit fractions Recognise equivalent fractions $\frac{1}{2}$ and $\frac{2}{4}$ Find $\frac{3}{4}$ Count in fractions Solve problems including fractions Measurement – Time <ul style="list-style-type: none"> Tell time to the hour Tell time to half hour Tell time to $\frac{1}{4}$ and $\frac{3}{4}$ to Tell time to 5 minutes Write the time Understand hours and days Compare durations of time 	Statistics - <ul style="list-style-type: none"> Making tally charts Interpret tally charts Draw and interpret pictograms 1-1 Draw and interpret pictograms 2,5,10 Complete block diagrams Geometry – Position and Direction <ul style="list-style-type: none"> Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line. (Position and movement) Distinguish between rotation as a turn and in terms of right angles for quarter, half and $\frac{3}{4}$ turns (clockwise and anti-clockwise) Making patterns with shapes