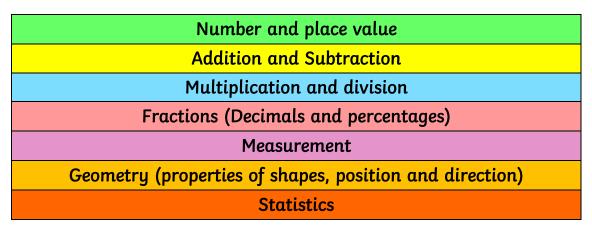


# Long Term Plan and Curriculum Coverage

Our Long term plan is developed from White Rose whilst incorporating the aims and objectives from the National Curriculum to meet the needs of our school. It is designed to support a mastery approach to teaching and learning. Through a 'block approach' it allows for basic skills to be mastered first and built upon throughout the year. We believe that spending longer on mastering key topics will build children's confidence and help secure understanding meaning less time will be spent on other topics throughout the year. It allows for incorporation of concrete, pictorial and abstract approaches to ensure secure understanding of mathematical concepts. Furthermore it provides opportunity to build reasoning and problem solving elements into the curriculum. It is the expectation that the Long Term Plan is adapted throughout the year based on what has previously been taught, prior assessments (hot/ cold tasks/ GL assessments/ White Rose End of Block Assessments) and formative assessment.

#### Curriculum Coverage:



Reviewed and Updated September 2022 (S.Hulme)

## Mathematics Long Term Plan Nursery



			Au	itumn 1						
Number Songs		Colours		Matching	Sorting					
Opportunities for settling in, introducing the areas of provision and getting to know the children.	variety of contexts e.g. nature, colours in the e on themselves such as h	ght to recognise and name colours toys within the classroom, colours nvironment, matching colours, col nair, skin, clothes. Children should ts are and are not the same colour. esign through painting.	s in objects lours Can you l be same?	opportunities for the children to explore and match which are the same. 4 find one exactly like mine? How do you know it's the Can you find one different to mine? Why is this one mine?	attributes such as colour, size or sho Sorting enables the children to cons the objects in one set and how they	Children learn that collections can be sorted into sets based on attributes such as colour, size or shape. Sorting enables the children to consider what is the same about all the objects in one set and how they are different to the other sets. They begin to understand that the same collection of objects can be costed in different ways.				
Development Matters: Take part in finger rhymes with numbers Show 'finger numbers' up to 5 whilst sing Make comparisons between objects relatir Complete inset puzzles related to size and Compare sizes using gestures and langua	ying nursery rhymes. ng to size. l colour.									
			Au	tumn 2						
Number 1		Number 2: Subitising		Number 2	Pattern 1	Pattern 2				
Children identify representations of 1. The find out how many and make their own of Number blocks episode 1, counting to 1, fi representing 1 on a 5 frame, a circle - 1 si the environment), 1 action e.g. 1 hop, 1 juu made of 1 nose, 1 mouth, 1 body, exploring of circles 1 being the first number, its position on a numbers Numicon 1 Dice 1 Subitising 1 The numeral and formation of 1 Number 1 in the environment Representing 1 using marks, pictures and Matching numeral to quantity Development Matters:	Children identify representations of 1, 2. They subitise or count to find out how many and make their own collections of 1 or 2 objects. Numicon 2 Dice 2 Subitising 2	They touch con number is the Number blocks 2 on a 5 frame environment), 1 is a part of n 2 being the see numbers The numeral a Number 2 in th Representing 2	h the number names to quantities and numerals. unt in different arrangements and recognise the final quantity of the set. sepisode 2, counting to 2, finding 2 objects, representing e, a semi-circle – 2 sides shape (including in the 2 actions e.g. 2 hops, 2 jumps, 2 claps, what 2 is made of ne, 1 is a part of me and the whole of me is 2 cond number, its position on a number line, ordinal and formation of 2 he environment 2 using marks, pictures and finger ieral to quantity	Children copy and continue a simple AB pattern. It is important to provide patterns with at least three full units of repeat. Encourage the children to say the pattern out loud as this helps them to identify the part which repeats and supports them to continue the pattern.	Build upon children's previous learning by introducing more complex patterns. Model extending and creating own ABAB patterns. Encourage children to begin to notice errors in patterns.					
Develop fast recognition of up to 3 objects Recite numbers past 5. Say one number for each item in order: 1, Know that the last number reached when Show 'finger numbers' up to 5. Link numerals and amounts: for example, Talk about and identify the patterns arou Create ABAB simple patterns – stick, leaf, Notice and correct an error in a repeating	2,3,4,5. counting a small set of o , showing the right numbe und them. For example: str stick, leaf.	bjects tells you how many there a er of objects to match the numeral	l, up to 3.	inal principle'). e informal language like 'pointy', 'spotty', 'blobs', etc.						

			Spring 1										
Number 3: Subitising	Number 3	Number 4: Subitising	Number 4		Number 5: Subitising		Number 5						
representations of 1, 2, 3. They subitise or count to find out how many and make their own collections of 1, 2 or 3 objects. Numicon 3 Dice 3 Subitising 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	Children match the number names to quantities a numerals. They touch count in different arrangements and recognise the final number is the quantity of the s Number blocks episode 3, Counting to 3, Finding 3 objects, Representing 3 on a 5 frame, A triangle – sides shape (including in the environment), 3 active e.g. 3 hops, 3 jumps, 3 claps, What is 3 made of – a part of me, 1 is a part of me and the whole of me 3, Exploring different varieties and orientations of triangles. B being the third number, its position on a numbe line, ordinal numbers, the numeral and formation 3, number 3 in the environment, representing 3 us narks, pictures and finger, matching numeral to quantity	sets of up to 4 objects to find out how many make their own collections of objects. Subjects. Numicon 4 Dice 4 Subitising 4	Children count on and back to 4. They match the number to numerals and quanti able to say which sets have more and fewer item When counting they continue to learn that the fit they say names the set. Number blocks episode 4, Counting to 4, Finding Representing 4 on a 5 frame, Squares and rectan sided shapes including in the environment, 4 act hops, 4 jumps, 4 claps, Composition of 4 (2 is a p 2 is a part of me and the whole of me is 4; 3 is a 1 is a part of me and the whole of me is 4) 4 being the fourth number, its position on a num ordinal numbers, the numeral and formation of in the environment, representing 4 using marks, and finger, matching numeral to quantity.	Children continue to subitise up to 5 items. Numicon 5 Dice 5 Subitising 5	using the counti They represent u Number blocks e objects, Represen shapes including hops, 5 jumps, 5 me, 2 is a part o of me, 1 is a part 5 being the fifth ordinal numbers numeral and for environment, rep	orwards and backwards to 5 accurately ng principles. up to 5 items on a five frame. pisode 5, Counting to 5, Finding 5 iting 5 on a 5 frames, Pentagons, 5 sided i in the environment, 5 actions e.g. 5 claps, Composition of 5 (3 is a part of f me and the whole of me is 5; 4 is a part t of me and the whole of me is 5) number, its position on a number line, i, numicon 5, dice 5, subitising 5, the mation of 5, number 5 in the presenting 5 using marks, pictures and i numeral to quantity							
Develop fast recognition Recite numbers past 5. Say one number for eac Know that the last num Show 'finger numbers' u Link numerals and amo	Develop fast recognition of up to 3 objects, without having to count them individually ('subitising'). Recite numbers past 5. Say one number for each item in order: 1,2,3,4,5. Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). Show 'finger numbers' up to 5. Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. Experiment with their own symbols and marks as well as numerals. Spring 2												
	Number 6	F	leight & Length		Mass		Capacity						
Tricing Tricing Current													

#### Summer 1

More/Fewer	One More	One Less	2D Shape	3D Shape
Begin to sort collections into sets, they	The children will use real objects to see that the	The children will use real objects	Children to begin to recognise shapes on	The primary focus in relation shapes should be on
learn that these sets can be compared	quantity of a group can be changed by adding more.	to see that the quantity of a group	everyday items in the classroom and outside.	the properties of shapes. For example, children should
and ordered.	The first, then, now structure can be used to create	can be changed by taking items	Encourage them to build their own circles,	be encouraged to notice and describe shapes in the
Making comparisons that sets can have	mathematical stories in meaningful contexts.	away.	triangles, squares and rectangles.	environment and talk about the properties using
more, fewer items or the same amount			Learn that squares, rectangles and triangles	words such as 'straight/flat/round/ curved'.
as another set. Show examples where	Children continue to count, subitise and compare as	Children continue to count,	have straight sides and corners.	
the difference is greater. Encourage	they explore one more. Prompt children to see the link	subitise and compare as they	Show shapes in a variety of different sizes and	When teaching the names of shapes, wherever
children to make comparisons in	between counting forwards and the one more pattern.	explore one more and one less.	orientations.	possible, real-life shapes in the environment should
different contexts as they play.				be used.
NOTE – it is easier for children to	To understand as we count, each number is one more	Prompt children to see the link	To consolidate shape names and properties.	
notice the difference between sets when	than the number before. Use a range of representations	between counting forwards and	Opportunities to explore similarities and	Note that only flat surfaces should be referred to as
the difference is greater. Start by	to support this understanding and encourage the	the one more pattern and back and	differences between them as they play and to	faces. Include sorting of natural shapes; the children
asking the children to compare 2 and 5	children to represent the one more and one less pattern	the one less pattern.	sort them according to what they notice.	may sort stones, for example, into sets that have
rather than 5 and 6	as they count.			straight edges etc.
Development Matterns				

#### **Development Matters:**

Develop fast recognition of up to 3 objects, without having to count them individually ('subitising').

Recite numbers past 5.

Say one number for each item in order: 1,2,3,4,5.

Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').

Show 'finger numbers' up to 6.

Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 6.

Experiment with their own symbols and marks as well as numerals.

Solve real world mathematical problems with numbers up to 5.

Compare quantities using language: 'more than', 'fewer than.'

Talk about and explore 2D shapes (for example, circles, rectangles and triangles) using informal and mathematical language: 'sides', 'curved', 'corners', 'straight', 'round'.

Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc

Combine shapes to make new ones-an arch, a bigger triangle, etc

#### Summer 2

Number Composition	Night and Day	Positional Language 1	Positional Language 2
Comparing quantities that can be more, the same as, or	Children talk about night and day and order key events in	Children need opportunities to be exposed to and to use	Encourage children to build on their understanding of
fewer than another quantity.	their daily routines, such as waking up, coming to school,	the language of position and direction; <i>Position: 'in', 'on',</i>	positional language.
Using a range of representations to support this	dinner, bed time. Children explore measuring time.	'under'. Direction: 'up', 'down', 'across'	
understanding and encourage children to compare		Children also need opportunities to use terms which are	Use positional language to describe a familiar route. E.g. a
quantities using a variety of objects and representations.	They use language to describe when things happen e.g.	relative: 'in front of, 'behind', 'on top of'.	map of the outdoor classroom.
Encourage children in their own ways of recording	day, night, morning, afternoon, before after, today,	Create as many opportunities as possible to explore this	Discuss routes and locations, using words like 'in front of'
quantities. Provide nearby numerals for reference.	tomorrow. Encourage the vocabulary of first, next, then	language such as hunting for hidden objects with some	and 'behind'.
Encourage children to subitise.	and possibly last.	prompts (e.g. look behind the shed).	

#### **Development Matters:**

Develop fast recognition of up to 3 objects, without having to count them individually ('subitising').

Recite numbers past 5.

Say one number for each item in order: 1,2,3,4,5.

Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').

Show 'finger numbers' up to 6.

Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 6.

Experiment with their own symbols and marks as well as numerals.

Solve real world mathematical problems with numbers up to 5.

 $Compare \ quantities \ using \ language: \ `more \ than', \ `fewer \ than.'$ 

Describe a familiar route.

Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...' Understand position through words alone – for example, "The bag is under the table," – with no pointing.

Discuss routes and locations, using words like 'in front of' and 'behind'.



## Mathematics Long Term Plan Reception

	Week 1	Week 2	Week 3	Week 4	Week 5	Week	e 6 We	ek 7	Week 8	Week	29 \	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	A Positi Tim	ption Baseli Assessment onal Langu es of the Do ass Routines	age ıy		Just like r	ne!		It	's Me 1, 2	, 3!		Li	ght and [	Dark	inc. Nur	olidation nber blocks/ own focus
	Week 1	Week 2	Wee	k3V	Veek 4	Week 5	5 Wee	ek 6	Week 7	7 W	eek 8	Weel	k 9 \	Week 10	Week 11	Week 12
Spring		Alive in !	5!		Gr	owing 6	o, 7, 8			E	3uildin	ıg 9 and	10		inc. Numbe	idation r blocks/ ten focus
	Week 1	Week 2	Week 3	8 Week	24 We	eek 5	Week 6	We	ek 7 🛛 🔪	Neek 8	Wee	ek 9 V	Veek 10	Week 11	Week 12	Week 13
Summer	То	20 and bey	ond		First T	hen Nov	V		Find	ny Patte	ern		O	In the Move	2	Consolidation inc. Number blocks/ ten town focus

#### White Rose Maths

#### Mathematics Long Term Plan Year 1

#### Throughout the year – Multiples of 2, 5, 10

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week	k 8	Week 9	Week	10 Wee	k 11	Week 12	Week 13	Week 14
Autumn		Place \	/alue (witł	10)			Addition (within 10) * Subtraction (within 10) *							Sł	Consolidation	
	Week 1	Week 2	Weel	2 3 W	eek 4	Week 5	Week 6	Wee	ek 7	Week	8	Neek 9	We	ek 10	Week 11	Week 12
Spring		e Value (w			Addition and Subtraction (within 20) Number: Place Value (within 50) Length and Height						Mass and Volume					
	Week 1	Week 2	Week 3	Week	4 Weel	x 5 Wee	ek 6 We	ek 7	Wee	ek 8	Week 9	Week 10	Neek 10 Week		Week 12	Week 13
Summer		r: Multiplic Division force mult 2, 5 and 10	iples of		Fracti	ons*	a	ition nd ection	Plac	e Value 100)	(within	Money	J	Ti	Consolidation	



## Mathematics Long Term Plan Year 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week	7 V	leek 8	Week 9	) Wee	ek 10 🛝	Neek 11	Week 1	2 Week 13	Week 14
Autumn		Place	e Value to	100*		Addition and Subtraction* Shape							Shape/ Consolidation			
	Week 1	Week 2	Week	2 3 We	eek 4	Week 5	Week 6	,	Neek 7	Wee	ek 8	Week 9	We	ek 10	Week 11	Week 12
Spring	Μ	loney		Multipli	cation and	d Division	(-)		Length	and Heig	ght		Capacity perature		Fract	ions*
	Week 1	Week 2	Week 3	Week	4 Wee	k5W	eek 6 🛛 \	Neek 7	We	eek 8	Week 9	Weel	k 10 N	Week 11	Week 12	Week 13
Summer	(+ope	ctions* erations lidation)	Operations Consolidation			Time* (KS1 SATS	5)			tatistics ered in S			osition c Directio		Conso	lidation



## Mathematics Long Term Plan Year 3

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week	11 Week 12	2 Week 13	Week 14	
Autumn	I	Place Valu	e		Ad	Addition and Subtraction*							Consolidation		
	Week 1	Week	2 Wee	k3 W	eek 4	Week 5	Week 6	Week 7	Week	8 W	eek 9	Week 10	Week 11	Week 12	
Spring	- Multiplication and Division B *Formal Methods *Consolidate addition/ s								Fractions A				Mass and Capacity		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week	11 Week 12	2 Week 13	Week 14	
Summer		Fractions E	3	Mc	ney		Tiı	ne		S	ιape	Stat	istics	Consolidation	



## Mathematics Long Term Plan Year 4

	Week 1	Week 2	Week 3	Week 4	Week 5	5 Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week	12 Week 13	Week 14
Autumn		Place	Value		Addi	tion and Sul	otraction	A & S inc. 2 step problems*	Area	Mu	ltiplicatio	on and D	ivision	Consolidation
	Week 1	Week 2	2 Wee	k 3 \	Neek 4	Week 5	Week 6	Week 7	Week	8 Weel	e 9 - M	/eek 10	Week 11	Week 12
Spring			nd Division , 10, 3, 4 ar			Fract	ions		Meası	ırement: Ti	me De	ecimals	Assessment Week/ Consolidation	Decimals
	Week 1	Week	2 2 V	/eek 3	Week 4	Week	5 We	ek 6 🛛 🔪	Veek 7	Week 8	Wee	2 9	Week 10	Week 11
Summer		Decimal	s con.			rement: Mon ng 3 day we		eometry – F cluding pos			Consolidation		Assessment Week/ Consolidation	Consolidation