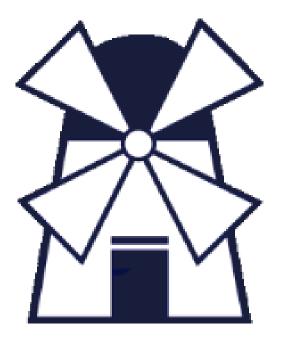
## FULWELL INFANT SCHOOL ACADEMY



# Maths Whole School Progression guide

## Nursery Coverage

Area of Learning	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Mathematics	Birth to Three 5. Counting like behaviour, such as making sounds, pointing or saying some numbers in sequence. 6. Count in everyday contexts, sometimes skipping numbers – '1, 2, 3, 5'. 10. Compare sizes, weights etc. using gesture and language – 'bigger/little/smaller', 'high/ bw', 'tall, 'heavy'. 11. Notice patterns and arrange things in patterns.	<ul> <li>Three and Four year olds <ol> <li>Understand position</li> <li>through words abne - for</li> <li>example, "The bag is under the table," - with no pointing.</li> </ol> </li> <li>14. Make comparisons between objects relating to size, length, weight and capacity.</li> <li>17. Talk about and identifies the patterns around them. For example: stripes on cbthes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'bb bs' etc.</li> <li>18. Extend and create ABAB patterns - stick, leaf, stick, leaf.</li> <li>19. Notice and correct an error in a repeating pattern.</li> </ul>	<ul> <li>Three and Four year olds</li> <li>7. Experiment with their own symbols and marks as well as numerals.</li> <li>10. Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', 'round'.</li> </ul>	Three and Four year olds 9. Compare quantities using language: 'more than', 'fewer than'. 15. Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc.	Three and Four year olds 8. Solve real world mathematical problems with numbers up to 5. 16. Combine shapes to make new ones - an arch, a bigger triangle etc.	Three and Four year olds 12. Describe a familar route. 13. Discuss routes and boations, using words like 'in front of and 'behind'. Children in Reception 21. Counts objects, actions and sounds. 23. Link the number symbol (numeral) with its cardinal number value.	
	Three and Four year olds 1. Fast recognition of up to 3 objects, without having to count them individually ('subitising'). 2. Recite numbers past 5. 3. Say one number for each item in order: 1, 2, 3, 4, 5 4. Know that the last number reached when counting a small set of objects tells you how many there are in total('cardinal principle') 5. Show 'finger numbers' up to 5 6. Link numerals and amounts: for example, showing the right number of objects to match the numeral up to 5.						

Area of Learning	Autumn 1	Autumn 2	spring 1	Spring 2	Summer 1	Summer 2
Mathematics	Three to Four year olds 2. Recite numbers past 5. 3. Say one number for each item in order: 1, 2, 3, 4, 5 4. Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle') 5. Show 'finger numbers' up to 5 6. Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. 7. Experiment with	Children in Reception 21. Count objects, actions and sounds. 23. Link the number symbol (numeral) with its cardinal number value. 24. Count beyond 10. 27. Explore the composition of numbers to 10. 31. Continue, copy and create repeating patterns.	Children in Reception 22. Subitise. 25. Compare numbers. 26. Understand the 'one more than/one less than' relationship between consecutive numbers. 32. Compare length, weight and capacity.	Children in Reception 28. Automatically recall number bonds for numbers 0-10. 29. Select, rotate and manipulate shapes in order to develop spatial reasoning skills. 30. Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.	<ul> <li>ELG – N</li> <li>1. Have a deep understanding of number to 10, including the composition of each number.</li> <li>2. Subitise (recognise quantities without counting up to 5.</li> <li>ELG – NP</li> <li>4. Verbally count beyond 20, recognsing the pattern of the counting system.</li> </ul>	ELG – N 3. Automatically recall (without references to rhymes, coutning or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts). ELG – NP 5. Compare quantities up to 10 in different contexts, recognising when one quantity is greater then, less than or the same as the other quantity.

	their own symbols and marks as well as numerals. 8. Solve real world mathematical problems with numbers up to 5.					6. Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.
WHITE ROSE Maths guidance	<ul> <li>To match, sort and compare amounts</li> <li>To compare size, mass and capacity</li> <li>To explore pattern</li> <li>To represent 1, 2 &amp; 3</li> <li>To compare 1, 2 &amp; 3</li> </ul>	<ul> <li>To explore the compositio n of 1, 2 &amp; 3</li> <li>To explore circles and triangles</li> <li>To explore positional language</li> <li>To represent numbers to 5</li> <li>To understand one more</li> </ul>	<ul> <li>To introduce zero</li> <li>To compare numbers to 5</li> <li>To explore the compositio n of 4 &amp; 5</li> <li>To compare mass</li> <li>To compare capacity</li> <li>To explore 6, 7 &amp; 8</li> <li>To make</li> </ul>	<ul> <li>To combine two groups</li> <li>To explore length and height</li> <li>To further explore time</li> <li>To explore 9 &amp; 10</li> <li>To compare numbers to 10</li> <li>To develop an understand ing of number</li> </ul>	<ul> <li>To build knowledge of numbers beyond 10</li> <li>To count patterns beyond 10</li> <li>To explore spatial reasoning</li> <li>To explore adding more</li> <li>To explore taking away</li> <li>To compose</li> </ul>	<ul> <li>To double numbers</li> <li>To share and group numbers</li> <li>To explore odd and even</li> <li>To visualise and build</li> <li>To develop a deeper understand ing of patterns and relationship s</li> </ul>

		and one less • To investigate shapes with 4 sides • To know about time	pairs	bonds to 10 To explore 3D shape To explore pattern	and decompose	<ul> <li>To explore mapping</li> </ul>
Understanding the World	<ul> <li>3-4 year olds</li> <li>3. Talk about what they see, using a wide vocabulary.</li> <li>4. Begin to make sense of their own life story.</li> <li>9. Begin to understand the need to respect and care for the natural environment and all living things.</li> <li>12. Continue to develop positive attitudes about the differences between people.</li> </ul>	Children in Reception 20. Recognise that people have different beliefs and celebrate special times in different ways.	Children in Reception 16. Comment on images of familiar situations in the past. 18. Draw information from a simple map. 19. Understand that some places are special to members of their communities.	Children in Reception 21. Recognise some similarities and differences between life in this country and life in other countries. 24. Recognise some environments that are different to the one in which they live.	Children in Reception 17. Compare and contrast characters from stories, including figures from the past. ELG – PP 1. Talk about the lives of the people around them and their roles in society. 2. Know some similarities and differences between things in the past and now, drawing on their experiences	ELG – TNW 8. Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. ELG – PCC 4. Describe their immediate environment using knowledge from observation, discussion, stories,

Children in Reception14. Talk about members of their immediate family and community.15. Name and describe people who are familiar to them.24. Recognise some environments that are different to the one in which they live.		and what has been read in class. <b>ELG – TNW</b> 7. Explore the natural world around them, making observations and drawing pictures of animals and plants.	non-fiction texts and maps. 5. Know some similarities and differences between different religious and cultural communities in this country, drawing on their experiences and what has been read in class.
Children in Reception			
22. Explore the natural world around them.			
23. Describe what they see, hear and feel whilst outside.			
25. Understand the effect of changing seasons on the natural wor	d around them.		

## Year 1 Coverage

#### Year 1- Yearly Overview Autumn Term

		Week 1 – 4 (BLOCK 1)	Week 5 – 9 (BLOCK 2)	Week 10 (BLOCK 3)	Week 11 – 12 (BLOCK 4)
		Number: Place Value (within 10)	Number: Addition and Subtraction (within 10)	Geometry: Shape	Number: Place Value (within 20)
	white Kose waths Smail Steps	<ul> <li>Sort objects.</li> <li>Count objects.</li> <li>Represent objects.</li> <li>Count, read &amp; write forwards from any number 0 -10.</li> <li>Count one more.</li> <li>Count one less.</li> <li>One to one correspondence to start to compare groups.</li> <li>Compare groups using language such as equal, more/greater, less/fewer.</li> <li>Introduce =, &gt; and &lt; symbols.</li> <li>Compare numbers.</li> <li>Order groups of objects.</li> <li>Order numbers.</li> <li>Ordinal numbers (1st, 2nd, 3rd).</li> <li>The number line.</li> </ul>	<ul> <li>Part whole model.</li> <li>Addition symbol.</li> <li>Fact families - Addition facts.</li> <li>Find number bonds for numbers within 10.</li> <li>Systematic methods for number bonds within 10.</li> <li>Number bonds to 10.</li> <li>Compare number bonds.</li> <li>Addition: Adding together.</li> <li>Addition: Adding more.</li> <li>Finding a part.</li> <li>Subtraction: Taking away, how many left? Crossing out.</li> <li>Subtraction: Taking away, how many left? Introducing the subtraction: Taking a part, breaking apart.</li> <li>Fact families - 8 facts.</li> <li>Subtraction: Finding the difference.</li> <li>Comparing addition and subtraction statements a + b &gt; c.</li> <li>Comparing addition and subtraction statements a + b &gt; c + d.</li> </ul>	<ul> <li>Recognise &amp; name 3D shapes.</li> <li>Sort 3D shapes.</li> <li>Recognise &amp; name 2D shapes.</li> <li>Sort 2D shapes.</li> <li>Patterns with 3D &amp; 2D shapes.</li> </ul>	Count forwards and backwards and write numbers to 20 in numerals and words. Numbers from 11 to 20. Tens and ones. Count one more and one less. Compare groups of objects. Order groups of objects. Order numbers.
National	Curriculum Link	<ul> <li>Count to ten, forwards and backwards, beginning with 0 or 1, or from any given number.</li> <li>Count, read and write numbers to 10 in numerals and words.</li> <li>Given a number, identify one more or one less.</li> <li>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.</li> </ul>	<ul> <li>Represent and use number bonds and related subtraction facts within 10.</li> <li>Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.</li> <li>Add and subtract one digit numbers to 10, including zero.</li> <li>Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems.</li> </ul>	<ul> <li>Recognise and name common 2-D shapes, including: (e.g. rectangles (including squares), circles and triangles).</li> <li>Recognise and name common 3-D shapes, including: (e.g. cuboids (including cubes), pyramids and spheres).</li> </ul>	<ul> <li>Count to twenty, forwards and backwards, beginning with 0 or 1, from any given number.</li> <li>Count, read and write numbers to 20 in numerals and words.</li> <li>Given a number, identify one more or one less.</li> <li>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.</li> </ul>
ments onwards	wī	<ul> <li>Read and write numbers in numerals (to 10).</li> </ul>	<ul> <li>Add and subtract (one digit numbers) explaining their method verbally in pictures or using apparatus.</li> <li>Recall at least four of the six number bonds for 10 and reason about associated facts.</li> </ul>	<ul> <li>Name some common 2D and 3D shapes from a group of shapes or from pictures of the shapes and describe some of their properties.</li> </ul>	<ul> <li>Read and write numbers in numerals (to 20).</li> <li>Partition a two-digit number into tens and ones and demonstrate and understanding of place value, though they may use structured resources to support them.</li> </ul>
tatemer 019 onv	WA	Read scales in divisions (of ones).	<ul> <li>Recall all the number bonds to and within 10. and use these to reason with.</li> </ul>	<ul> <li>Name and describe properties of 2D and 3D shapes.</li> </ul>	<ul> <li>Partition two digit numbers into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus.</li> </ul>
TAF St 2018 – 20	GD	<ul> <li>Read scales where not all numbers on the scale are given and estimate points in between.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> </ul>	<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Describe the similarities and differences of 2D and 3D shapes, using their properties.</li> </ul>	<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involve more than one step.</li> </ul>

#### Year 1- Yearly Overview Spring Term

	Week 1 (BLOCK 1)	Week 2 - 4 (BLOCK 1)	Week 5 - 7 (BLOCK 2)	Week 8 - 9 (BLOCK 3)	Week 10 - 11 (BLOCK 4)	Week 12
	Consolidation	Number: Addition and Subtraction	Number: Place Value (within 50) (including multiples of 2, 5 and 10)	Measurement: Length and Height	Measurement: Weight and Volume	Consolidation
White Rose Maths Small Steps	All	<ul> <li>Add by counting on.</li> <li>Find and make number bonds.</li> <li>Add by making 10.</li> <li>Subtraction – Not crossing 10.</li> <li>Subtraction – Crossing 10 (1).</li> <li>Subtraction – Crossing 10 (2).</li> <li>Related Facts.</li> <li>Compare Number Sentences.</li> </ul>	Numbers to 50.     Tens and ones.     Represent numbers to 50.     One more one less.     Compare objects within 50.     Compare numbers within 50.     Order numbers within 50.     Count in 2s.     Count in 5s.	<ul> <li>Compare lengths and heights.</li> <li>Measure length (1).</li> <li>Measure length (2).</li> </ul>	<ul> <li>Introduce weight and mass.</li> <li>Measure mass.</li> <li>Compare mass.</li> <li>Introduce capacity.</li> <li>Measure capacity.</li> <li>Compare capacity.</li> </ul>	All
National Curriculum Link	AII	<ul> <li>Represent and use number bonds and related subtraction facts within 20.</li> <li>Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.</li> <li>Add and subtract one-digit and two-digit numbers to 20, including zero.</li> <li>Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7=9.</li> </ul>	<ul> <li>Count to 50 forwards and backwards, beginning with 0 or 1, or from any number.</li> <li>Count, read and write numbers to 50 in numerals.</li> <li>Given a number, identify one more or one less.</li> <li>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.</li> <li>Count in multiples of twos, fives and tens.</li> </ul>	<ul> <li>Measurement: Length and Height Measure and begin to record lengths and heights.</li> <li>Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tall/short, double/half).</li> </ul>	<ul> <li>Measurement: Weight and Volume Measure and begin to record mass/weight, capacity and volume.</li> <li>Compare, describe and solve practical problems for mass/weight:[for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter].</li> </ul>	All
:s ards д б		<ul> <li>Add and subtract (one digit numbers) explaining their method verbally in pictures or using apparatus.</li> <li>Recall at least four of the six number bonds for 10 and reason about associated facts.</li> </ul>	<ul> <li>Read and write numbers in numerals (to 50).</li> <li>Partition a two-digit number into tens and ones and demonstrate and understanding of place value, though they may use structured resources to support them.</li> </ul>	N/A	N/A	
AF Statement :- 2019 onw: ► €	All	<ul> <li>Recall all the number bonds to and within 10. and use these to reason with and calculate bonds to and within 20, recognising other associated additive relationships.</li> </ul>	<ul> <li>Read scales in divisions of ones, twos, fives.</li> <li>Partition two digit numbers into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus.</li> </ul>	N/A	N/A	All
ד <i>ו</i> 2018 סמ		<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Read scales where not all numbers on the scale are given and estimate points in between.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	

#### Year 1- Yearly Overview Summer Term

		Week 1 (BLOCK 1)	Week 2 – 4 (BLOCK 2)	Week 5 – 6 (BLOCK 3)	Week 7 (BLOCK 4)	Week 8 – 9 (BLOCK 5)	Week 10 (BLOCK 6)	Week 11 – 12 (BLOCK 7)
		Consolidation	Number: Multiplication and (including multiples of 2, 5 and 10)	Number: Fractions	Geometry: Position and Direction	Number: Place Value (within 100)	Measurement: Money	Measurement: Time
wnnte Rose Small	Steps	All	Count in 10s.     Make equal groups.     Add equal groups.     Make arrays.     Make doubles.     Make equal groups – grouping.     Make equal groups – sharing.	Halving shapes or objects.     Halving a quantity.     Find a quarter of a shape or object.     Find a quarter of a quantity.	Describe turns.     Describe Position (1).     Describe Position (2).	Counting to 100.     Partitioning numbers.     Comparing numbers [1].     Comparing numbers [2].     Ordering numbers.     One more, one less.	Recognising coins.     Recognising notes.     Counting in coins.	Before and after.     Dates.     Time to the hour.     Time to the haif hour.     Writing time.     Comparing time.
National Curriculum Link		All	<ul> <li>Count in multiples of twos, fives and tens.</li> <li>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.</li> </ul>	<ul> <li>Recognise, find and name a half as one of two equal parts of an object, shape or quantity.</li> <li>Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.</li> <li>Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tail/short, double/half)</li> <li>Compare, describe and solve practical problems for: mas/weight (for example, heavy/light, heavier than, lighter than); capacity and volume (for example, ful/empty, more than, less than, half, half full, quarter).</li> </ul>	<ul> <li>Describe position, direction and movement, including whole, half, quarter and three quarter turns</li> </ul>	<ul> <li>Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.</li> <li>Count, read and write numbers to 100 in numerals.</li> <li>Given a number, identify one more and one less.</li> <li>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.</li> </ul>	<ul> <li>Recognise and know the value of different denominations of coins and notes.</li> </ul>	<ul> <li>Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening.</li> <li>Recognise and use language relating to dates, including days of the week, weeks, months and years.</li> <li>Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.</li> <li>Compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later].</li> <li>Measure and begin to record time (hours, minutes, seconds).</li> </ul>
OTIWALD	W T		<ul> <li>Count in 2s, 5s and 10s from 0 and use this to solve problems.</li> </ul>	N/A	N/A	Read and write numbers in numerals (to 50).     Partition a two-digit number into tens and ones and demonstrate and understanding of place value, though they may use structured resources to support them.	<ul> <li>Know the value of different coins.</li> </ul>	Read the time on a clock
6T07 - 9T07	W A	All	<ul> <li>Recall multiplication and division facts for 2 and 10 and use them to solve simple problems, demonstrating and understanding of the commutativity as necessary.</li> </ul>	<ul> <li>Identify X of a number or shape and know that all the parts must be equal parts of the whole.</li> </ul>	N/A	<ul> <li>Read scales in divisions of ones, twos, fives.</li> <li>Partition two digit numbers into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus.</li> </ul>	<ul> <li>Use different coins to make the same amount.</li> </ul>	<ul> <li>Read the time on a clock (to half an hour)</li> </ul>
IAF Statements	GD		<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Solve unfamiliar word problems that involves more than one step.</li> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> </ul>	<ul> <li>Read scales where not all numbers on the scale are given and estimate points in between.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> </ul>	<ul> <li>Solve unfamiliar word problems that involves more than one step.</li> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> </ul>	<ul> <li>Solve unfamiliar word problems that involves more than one step.</li> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> </ul>

## Year 2 Coverage

#### Year 2- Yearly Overview Autumn Term

	Week 1 – 3 (BLOCK 1)	Week 4 – 8 (BLOCK 2)	Week 9 – 10 (BLOCK 3)	Week 11 (BLOCK 4)	Week 12 (BLOCK 5)
	Number: Place Value	Number: Addition and Subtraction	Measurement: Money	Number: Multiplication and Division	Consolidation
White Rose Maths Small Steps	<ul> <li>Count forwards &amp; backwards within 20</li> <li>Tens and ones within 20</li> <li>Count forwards &amp; backwards within 50</li> <li>Tens and ones within 50</li> <li>Compare numbers within 50</li> <li>Count objects to 100 and read and write numbers in numerals and words.</li> <li>Represent numbers to 100.</li> <li>Tens and ones with a part whole model.</li> <li>Tens and ones with a part whole model.</li> <li>Tens and ones with a part whole model.</li> <li>Use a place value chart.</li> <li>Compare objects.</li> <li>Compare objects.</li> <li>Count in 2s</li> <li>Count in 3s.</li> </ul>	<ul> <li>Fact families – Addition and subtraction bonds to 20.</li> <li>Check calculations.</li> <li>Compare number sentences.</li> <li>Related facts.</li> <li>Bonds to 100 (tens).</li> <li>Add and subtract 1s.</li> <li>10 more and 10 less.</li> <li>Add and subtract 10s.</li> <li>Add and subtract 10s.</li> <li>Add y making 10</li> <li>Subtracta 1 - digit number – crossing 10.</li> <li>Subtract a 1-digit number from a 2-digit number – crossing 10.</li> <li>Add two 2-digit number from a 2-digit number – not crossing 10.</li> <li>Abd two 2-digit number from a 2-digit number – not crossing 10.</li> <li>Subtract a 2-digit number from a 2-digit number – not crossing 10.</li> <li>Subtract a 2-digit number from a 2-digit number – not crossing 10.</li> <li>Subtract a 2-digit number from a 2-digit number – crossing 10.</li> <li>Subtract a 5-digit number from a 2-digit number – not crossing 10.</li> <li>Subtract a 5-digit number from a 2-digit number – not crossing 10.</li> <li>Subtract a 5-digit number from a 2-digit number – crossing 10.</li> <li>Subtract a 1-digit number from a 2-digit number – not crossing 10.</li> <li>Subtract a 1-digit number from a 2-digit number – not crossing 10.</li> <li>Subtract a 1-digit number from a 2-digit number – not crossing 10.</li> <li>Subtract a 100 (tens and ones).</li> <li>Add three 1-digit numbers.</li> </ul>	<ul> <li>Recognising coins &amp; notes</li> <li>Count money – pence.</li> <li>Count money – pounds (notes and coins).</li> <li>Count money – notes and coins.</li> <li>Select money.</li> <li>Make the same amount.</li> <li>Compare money.</li> <li>Find the total.</li> <li>Find the difference.</li> <li>Find change.</li> <li>Two-step problems.</li> </ul>	<ul> <li>Make equal groups.</li> <li>Add equal groups.</li> <li>Make arrays</li> </ul>	All
National Curriculum Link	<ul> <li>Read and write numbers to at least 100 in numerals and in words.</li> <li>Recognise the place value of each digit in a two digit number (tens, ones) Identify, represent and estimate numbers using different representations including the number line.</li> <li>Compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs.</li> <li>Use place value and number facts to solve problems.</li> <li>Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward.</li> </ul>	<ul> <li>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> <li>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.</li> <li>Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.</li> <li>Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantilies and measures; applying their increasing knowledge of mental and written methods.</li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</li> </ul>	<ul> <li>Recognise and use symbols for pounds (E) and pence (p); combine amounts to make a particular value.</li> <li>Find different combinations of coins that equal the same amounts of money.</li> <li>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.</li> </ul>	<ul> <li>Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers.</li> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) sign.</li> <li>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.</li> <li>Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another canot.</li> </ul>	All
- 2019 <mark>-                                    </mark>	<ul> <li>Read and write numbers in numerals up to 100.</li> <li>Partition a two-digit number into tens and ones and demonstrate and understanding of place value, though they may use structured resources to support them.</li> </ul>	<ul> <li>Add and subtract (one digit numbers) explaining their method verbally in pictures or using apparatus.</li> <li>Recall at least four of the six number bonds for 10 and reason about associated facts.</li> </ul>	Know the value of different coins.	N/A	
ents 2018∙ ► €	<ul> <li>Read scales in divisions of ones, twos, fives and tens.</li> <li>Partition two digit numbers into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus.</li> </ul>	<ul> <li>Recall all the number bonds to and within 10. and use these to reason with and calculate bonds to and within 20, recognising other associated additive relationships.</li> </ul>	Use different coins to make the same amount.	<ul> <li>Recall multiplication and division facts for 2, 5 and 10 and use them to solve simple problems, demonstrating and understanding of commutativity as necessary.</li> </ul>	All
TAF Statem ס מ	<ul> <li>Read scales where not all numbers on the scale are given and estimate points in between.</li> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Recall and use multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts.</li> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	en floer Education

#### Year 2- Yearly Overview Spring Term

		Week 1 – 4 (BLOCK 1)	Week 5 – 6 (BLOCK 2)	Week 7–9 (BLOCK 3)	Week 10 – 12 (BLOCK 4)
		Number: Multiplication and Division	Statistics	Geometry: Properties of Shape	Number: Fractions
White Rose Maths Small Steps		<ul> <li>Recognise equal groups.</li> <li>Make equal groups.</li> <li>Add equal groups.</li> <li>Multiplication sentences using the x symbol.</li> <li>Multiplication sentences from pictures.</li> <li>Use arrays.</li> <li>2 times-table.</li> <li>5 times-table.</li> <li>10 times-table.</li> <li>Make equal groups - sharing.</li> <li>Make equal groups - grouping.</li> <li>Divide by 2.</li> <li>Odd and even numbers.</li> <li>Divide by 5.</li> <li>Divide by 10.</li> </ul>	<ul> <li>Make tally charts.</li> <li>Draw pictograms (1-1).</li> <li>Interpret pictograms (1-1).</li> <li>Draw pictograms (2, 5 and 10).</li> <li>Interpret pictograms (2, 5 and 10).</li> <li>Block diagrams.</li> </ul>	<ul> <li>Recognise 2D and 3D shapes.</li> <li>Count sides on 2D shapes.</li> <li>Count vertices on 2D shapes.</li> <li>Draw 2D shapes.</li> <li>Lines of symmetry.</li> <li>Sort 2D shapes.</li> <li>Make patterns with 2D shapes.</li> <li>Count faces on 3D shapes.</li> <li>Count edges on 3D shapes.</li> <li>Sort 3D shapes.</li> <li>Make patterns with 3D shapes.</li> <li>Make patterns with 3D shapes.</li> </ul>	<ul> <li>Make equal parts.</li> <li>Recognise half.</li> <li>Find half.</li> <li>Recognise quarter.</li> <li>Find a quarter.</li> <li>Recognise a third.</li> <li>Find a third.</li> <li>Unit fractions.</li> <li>Non-unit fractions.</li> <li>Equivalence of % and <sup>2</sup>/<sub>4</sub>.</li> <li>Find three quarters.</li> <li>Count in fractions.</li> </ul>
	National Curriculum Link	<ul> <li>Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers.</li> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs.</li> <li>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.</li> <li>Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.</li> </ul>	<ul> <li>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.</li> <li>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</li> <li>Ask and answer questions about totaling and comparing categorical data.</li> </ul>	<ul> <li>Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.</li> <li>Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.</li> <li>Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].</li> <li>Compare and sort common 2-D and 3-D shapes and everyday objects.</li> </ul>	<ul> <li>Recognise, find, name and write fractions <sup>1</sup>/<sub>3</sub>, <sup>1</sup>/<sub>4</sub>, <sup>2</sup>/<sub>4</sub> and <sup>3</sup>/<sub>4</sub> of a length, shape, set of objects or quantity.</li> <li>Write simple fractions for example, <sup>1</sup>/<sub>2</sub> of 6 = 3 and recognise the equivalence of <sup>2</sup>/<sub>4</sub> and <sup>1</sup>/<sub>2</sub>.</li> </ul>
2019	wt	N/A	N/A	<ul> <li>Name some common 2D and 3D shapes from a group of shapes or from pictures of the shapes and describe some of their properties.</li> </ul>	N/A
2018 -	WA	<ul> <li>Recall multiplication and division facts for 2, 5 and 10 and use them to solve simple problems, demonstrating and understanding of commutativity as necessary.</li> </ul>	<ul> <li>Read scales in divisions of ones, twos, fives and tens.</li> </ul>	<ul> <li>Name and describe properties of 2D and 3D shapes, including number of sides, vertices, edges, faces and lines of symmetry.</li> </ul>	• Identify $\frac{1}{4}$ , $\frac{1}{3}$ , $\frac{1}{2}$ , $\frac{2}{4}$ , $\frac{3}{4}$ of a number or shape and know that all the parts must be equal parts of the whole.
TAF Statements	GD	<ul> <li>Recall and use multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts.</li> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Read scales where not all numbers on the scale are given and estimate points in between.</li> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Describe the similarities and differences of 2D and 3D shapes, using their properties.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>

Year 2- Yearly Overview Summer Term	
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		Week 1 - 2 BLOCK 1	Week 3 - 4 BLOCK 2	Week 5 - 6 BLOCK 3	Week 7 - 8 BLOCK 4	Week 9 - 11 BLOCK 5	Week 12 BLOCK 6
		Measurement: Length and Height	Geometry: Position and Direction	Consolidation and Problem solving	Measurement: Time	Measurement: Mass, Capacity and Temperature	Consolidation
National Curriculum Link Small Steps		<ul> <li>Measure length (cm).</li> <li>Measure length (m).</li> <li>Compare lengths.</li> <li>Order lengths.</li> <li>Four operations with lengths.</li> </ul>	<ul> <li>Describing movement.</li> <li>Describing turns.</li> <li>Describing movement and turns.</li> <li>Making patterns with shapes.</li> </ul>	All	<ul> <li>O'clock and half past.</li> <li>Quarter past and quarter to.</li> <li>Telling time to 5 minutes.</li> <li>Minutes in an hour, hours in a day.</li> <li>Find durations of time.</li> <li>Compare durations of time.</li> </ul>	<ul> <li>Compare mass.</li> <li>Measure mass in grams.</li> <li>Measure mass in kilograms.</li> <li>Compare capacity.</li> <li>Millilitres.</li> <li>Litres.</li> <li>Temperature.</li> </ul>	Ali
		<ul> <li>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.</li> <li>Compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =.</li> </ul>	<ul> <li>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).</li> <li>Order and arrange combinations of mathematical objects in patterns and sequences.</li> </ul>	All	<ul> <li>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.</li> <li>Know the number of minutes in an hour and the number of hours in a day.</li> <li>Compare and sequence intervals of time.</li> </ul>	<ul> <li>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.</li> <li>Compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =.</li> </ul>	Ali
	wт	N/A	N/A	All	Read the time on a clock	N/A	All
TAF Statements 2018 - 2019	WA	N/A	N/A	All	<ul> <li>Read the time on a clock to the nearest 15 minutes.</li> </ul>	N/A	All
	GD	<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	All	<ul> <li>Read the time on a clock to the nearest 5 minutes.</li> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	<ul> <li>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking.</li> <li>Solve unfamiliar word problems that involves more than one step.</li> </ul>	All

## Problem Solving Progression Reception-Year 2

Reception	Year 1	Year 2
Problem Solving Skills	Problem Solving Skills	Problem Solving Skills
Engage with mathematical activities and problems (sorting, counting, measuring) within a range of contexts and with clear links made to the <u>wider curriculum</u> , <u>real-life</u> and <u>role-play</u> Concrete: real objects Concrete: mathematical equipment or other real objects to represent the context Pictorial: pictures of real objects Use <u>trial and trial</u> strategy Try something out to give insight into the context Use trial and improvement strategy	Make links and move between different representations (concrete, pictorial, abstract) of a problem, with clear links made to the wider curriculum and real-life and those based in mathematics         Abstract: Verbal description of a problem         Concrete: real objects and mathematical equipment to represent the context         Pictorial: pictures of real objects and mathematical equipment to represent the context         Abstract: mathematical notation (numerals and symbols)         With support choose to scaffold thinking using concrete and pictorial representations if appropriate         With support choose to represent thinking using concrete, pictorial or abstract representations as appropriate	Independently choose to <u>scaffold and represent</u> thinking using <u>concrete</u> , <u>pictorial or abstract</u> representations if and as appropriate With support (classroom discussion, paired work, guided group) find a <u>starting point</u> to <u>break into a problem</u> Identifying key facts/relevant information With support work <u>systematically</u> Adopta model suggested by others: peer or adult Make connections and apply knowledge to similar problems Spot patterns Find most possibilities that match the context
Use ideas gained from a trial to decide what to do next	With support (classroom discussion, paired work, guided group) find a starting point to break into a problem	Check their work
With support find some <u>possibilities</u> that match the context With support check their work	Use trial and improvement strategy Use ideas gained from a trial to decide what to do next	Continue looking for other possibilities Check for repeats Check for missing answers
Continue looking for other possibilities	Independently find some <u>possibilities</u>	Predict what will come next in a sequence with numbers
With support <u>pattern spot</u> and <u>copy</u> and <u>continue</u> a pattern with actions	With support <u>check</u> their work Continue looking for other possibilities Check for repeats	Predict what will come next in a pattern with shapes
With support <u>pattern spot</u> and <u>copy</u> and <u>continue</u> a pattern with objects		Predict what will come next in a spatial pattern
With support <u>pattern spot</u> and <u>copy</u> and <u>continue</u> a pattern with shapes	Check for missing answers	With support, investigate statements and conjectures
With support pattern spot and copy and continue a pattern with numbers	Independently <u>pattern spot</u> and <u>copy</u> and <u>continue</u> a pattern with objects, <u>predicting</u> what will come next	${\it Conjectures: \  something \  unproven \  may \  use \  the \  sentence \  stem: \  `I \  think \ ' \  Statement: \  something \  proven \  addle \  something \  box{} addle \ $
Reasoning Skills STAGE 1 DESCRIBE	Independently <u>pattern spot</u> and <u>copy</u> and <u>continue</u> a pattern with shapes, <u>predicting</u> what will come next Independently <u>pattern spot</u> and <u>copy</u> and <u>continue</u> a sequence with numbers, <u>predicting</u> what will come next	Reasoning Skills STAGE 1 DESCRIBE STAGE 2 EXPLAIN Explain their work, verbally and where and when appropriate in written form, using precise mathematical language Strategies and methods used
With support <u>describe</u> their work verbally with simple conclusions and appropriate language Different ways they have sorted objects: what is the same and what is different, which set has most/least, which object is biggest/smallest/tallest etc.	Independently <u>pattern spot</u> and <u>copy</u> and <u>continue</u> a spatial pattern, <u>predicting</u> what will come next           Reasoning Skills         STAGE 1         DESCRIBE         STAGE 2         EXPLAIN	Reference to patterns spotted Respond to questions and ideas from peers and adults Refer to the materials they have used and their work when talking about what they have done
Numbers and calculations: how many: altogether, used, hidden, left, each etc. Patterns spotted	With support <u>describe</u> and <u>explain with reasons</u> their work, verbally, using appropriate mathematical language Strategies and methods used Patterns spotted	Begin to use given sentence stems and connectives to expand, such as: 'I know that <u>because</u> ' Give an <u>explanation</u> for their prediction of what will come next in a simple pattern/sequence (numbers, shape,
Respond to questions and ideas from peers and adults Refer to the materials they have used when talking about what they have done	Respond to questions and ideas from peers and adults Refer to the materials they have used and their work when describing about what they have done	spatial) using precise mathematical language <u>Explain</u> why a <u>statement or conjecture</u> is correct or incorrect using precise mathematical language
With support <u>describe</u> how a pattern (actions, shapes, objects and numbers) will develop using appropriate	Describe how a pattern/sequence (shapes, objects, numbers, spatial) will continue and explain their reasons using appropriate language	Listen to others' explanations, make sense of them and compare and evaluate
language		Begin to <u>edit and improve</u> their own and a peer's explanation
Listen to others' <u>descriptions</u>	Listen to others' explanations and try to make sense of them	With support investigate <u>'what if?'</u> questions
(Unless pupils are ready to record in written form, pupils' verbal reasoning should be captured by an adult)	(Unless pupils are ready to record in written form, pupils' verbal reasoning should be captured by an adult)	(If pupils are not ready to record in written form or have a weakness, pupils' verbal reasoning should be captured by an adult)