



This is a spiral curriculum where children will develop a deep understanding of numbers from 1 to 5 with a view to moving onto matching the right numeral to a group of things from 1 to 10 in the summer term (for children who will be entering Reception in September).

Able to recite numbers beyond 10 in the summer term. Our approach is based on developing the children's fluency with regard to each number and therefore, many of the activities are repeated.

For every number the children will know the following:-

- That the cardinal value of a number refers to the quantity, or 'howmanyness' of things it represents
- How to use manipulatives to support them when composing numbers.
- That comparing numbers involves knowing which numbers are worth more or less than/ fewer than and the same as vocabulary
- Recite numbers up to five
- Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.
- Represent their own symbols and marks as well as numerals.

Patterns

- Describe patterns around them
- Extend and create ABAB patterns – stick, leaf, stick, leaf.
- Notice and correct an error in a repeating pattern.
- Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...'

Shape, Space and Measure

- 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'.
- Understand position through words alone – for example, "the bag is under the table," – with no pointing.
- Describe a familiar route.
- Discuss routes and locations, using words like 'in front of' and 'behind'.
- 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

Measures

- Make comparisons between objects relating to size, length, weight and capacity.

\*Numberblocks clips and resources will be used to support the teaching of each number

Vocabulary	General	Place Value	Four operations	Fractions	Geometry and position	Measure
Black vocab – N+R Green vocab – Rec	sort part whole model five frame tens frame counting beads counters	concrete objects count digit partition zero greater than less than	same double equal to equals facts number bond	share whole part half	Pattern Repeating pattern Shapes 2D shape	hour length measure pound (money) penny minute time

		number more than Fewer equal (to) forwards backwards tens ones  order Number name Numbers Subitise	share add less fewer subtract take away total altogether		3Dshapes Side Corner Face edge  circle circular cone cube cuboid cylinder line pattern rectangle square triangle	Tallest Shortest Big Small Weight Heaviest Lightest Longest Length Days of the week Money Coins
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Autumn 1

Autumn 1									
Baseline	Number 1			Number 2					
Linked text	Dear Zoo – How many zoo animals are on each page? Humpty Dumpty – one egg			Day Monkey, Night Monkey – How many monkeys are there? The animals went in two by two – count the animals as they go onto the ark					
Daily counting up to and back from 10  Counting is built into everyday routines such as register time, tidying up, lining up or counting out pieces of fruit at snack time.  Children will have access to a range of jigsaws throughout the year which will increase in complexity as the year progresses.	Cardinality and Composition	Shape and Space	Measures	Cardinality and Composition	Comparison	Composition	Pattern	Shape and space	Measures
	One beat on the drum Simon says game linked to one e.g. one finger, one clap, one hop Find one thing in the provision Show one on a five frame Dice rolling activity – all with pictures of one action to complete Find numeral one in the provision Threading one item onto a lace Show finger numbers – 1 Quick flash of one spot in different positions – how many spots can the children see?	Art link: Kandinsky art work - circles	Does one cup of water fill any of the containers? Children to make predictions based on whether one cup will fill any of them,  1 <sup>st</sup> in the line – lining up	Two beats on the drum Simon says game linked to two e.g. one finger, one clap, one hop Find two things in the provision Show two on a five frame Dice rolling activity – all with pictures of two actions to complete Find numeral two in the provision Threading two item onto a lace Show finger numbers – 2 Counting out two objects Make dot cards Posting card activity – 1 and 2 Show finger numbers – 1 and 2 Quick flash of one and two spots in different positions – how many spots can the children see?	Compare quantities of one and two using more and fewer		Introduce what patterns are – look at patterns on socks and wellies to make a pair	Compare the heights of models using one or two blocks e.g. which is taller/ which is shorter?	Make Play doh link to cups for measuring

Autumn 1

Number 3					
The Three Little Pigs Three Blind Mice					
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
<p>Play up to three beats on the drum</p> <p>Simon says game linked to three e.g. three fingers, three claps, three hops</p> <p>Find three things in the provision</p> <p>Show three on a five frame</p> <p>Dice rolling activity – all with pictures of actions to complete linked to 1,2 and 3</p> <p>Find numeral 3 in the provision</p> <p>Find numerals 1,2 and 3 in the provision</p> <p>Threading three items onto a lace</p> <p>Show finger numbers –3 (and up to 3)</p> <p>Counting out three objects</p> <p>Make dot cards</p> <p>Posting card activity – 1, 2, 3</p> <p>Quick flash of one, two and three spots in different positions – how many spots can the children see?</p>	<p>Children to make their own cards which show 1,2,3</p> <p>Compare quantities of one, two and three using more and fewer</p>		<p>Patterns on animals</p>	<p>Explore the properties of a triangle</p> <p>Make shapes using 3 match sticks – what shape can you make?</p>	<p>Children to use measuring cups to make play-dough 1,2,3 cups.</p> <p>Fill three cups with water/ sand etc.</p>

Autumn 2

Autumn 2

Number 4						Number 5					
Bear in a square						A Squash and a Squeeze					
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures	Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
<p>Play up to four beats on the drum Simon says game linked to four e.g. four fingers, four claps, four hops Find four things in the provision Show four on a five frame Dice rolling activity – all with pictures of actions to complete linked to 1,2 3 and 4 Find numeral 4 in the provision Find numerals 1,2, 3 and 4 in the provision Threading four items onto a lace Show finger numbers –4 (and up to 4) Counting out four objects Make dot cards Posting card activity – 1, 2, 3, 4</p>	<p>Children to make their own cards which show 1,2,3,4 Compare quantities of one, two, three and four using more and fewer</p>		<p>Patterns on clothes – stripes, spots</p>	<p>Explore the properties of a square Make shapes using 4 match sticks – what shape can you make? What shapes can you make using four multi link cubes What can the children spot that is a square in the story?</p>	<p>Children to use measuring cups to make play-dough 1,2,3,4 cups/ measuring spoons. Fill four cups with water/ sand etc.</p>	<p>Play up to five beats on the drum Simon says game linked to five e.g. five fingers, five claps, five hops Find five things in the provision Show five on a five frame Dice rolling activity – all with pictures of actions to complete linked to 1,2 3, 4 and 5. Find numeral 5 in the provision Find numerals 1,2, 3, 4 and 5 in the provision Threading five items onto a lace Show finger numbers –5 (and up to 5) Counting out five objects Make dot cards Posting card activity – 1, 2, 3, 4, 5</p>	<p>Children to make their own cards which show 1,2,3,4, 5 Compare quantities of one, two, three, four and five using more and fewer</p>		<p>Patterns on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs'</p>	<p>Make shapes using 5 match sticks – what shape can you make? What shapes can you make using five multi link cubes?</p>	<p>Children to use measuring cups to make play-dough 1,2,3,4,5 cups/ measuring spoons. Fill four cups with water/ sand etc.</p>

Number 1						Number 2					
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures	Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
Dear Zoo						Day Monkey, Night Monkey – How many monkeys are there? The animals went in two by two – count the animals as they go onto the ark					
<p>One beat on the drum Simon says game linked to one e.g. one finger, one clap, one hop Find one thing in the provision Show one on a five frame Dice rolling activity – all with pictures of one action to complete Find numeral one in the provision Threading one item onto a lace Show finger numbers – 1 Quick flash of one spot in different positions – how many spots can the children see? Discuss body parts we have one of e.g. one mouth, one nose etc. Matches the right number to a group of things e.g. pegs, paperclips etc.</p>				<p>Circle printing activity – use fruits too e.g. half an orange, potato Focus on positional language – on top, next to, beside, under, in front, behind. Sphere has one curved face.</p>	<p>Does one cup of water fill any of the containers? Children to make predictions based on whether one cup will fill any of them. Focus on the vocab full and empty.  1<sup>st</sup> in the line – lining up/ in a race</p>	<p>Two beats on the drum Simon says game linked to two e.g. one finger, one clap, one hop Find two things in the provision Show two on a five frame Dice rolling activity – all with pictures of two actions to complete Find numeral two in the provision Threading two item onto a lace Show finger numbers – 2 Counting out two objects Make dot cards Posting card activity – 1 and 2 Show finger numbers – 1 and 2 Quick flash of one and two spots in different positions – how many spots can the children see? Matches the right number to a group of things e.g. pegs, paperclips etc.</p>	<p>Compare quantities of one and two using more and fewer</p>		<p>ABAB patters e.g. stick, pinecone children to continue your pattern.</p>	<p>Compare the heights of models using one or two blocks e.g. which is taller/ which is shorter?</p>	<p>Make Play doh link to cups for measuring</p>

Spring 2						Spring 2					
Number 3						Number 4					
The Three Little Pigs Goldilocks and the Three Bears Three Blind Mice						Bear in a square					
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures	Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
<p>Play up to three beats on the drum Simon says game linked to three e.g. three fingers, three claps, three hops Find three things in the provision Show three on a five frame Dice rolling activity – all with pictures of actions to complete linked to 1,2 and 3 Find numeral 3 in the provision Find numerals 1,2 and 3 in the provision Threading three items onto a lace Show finger numbers –3 (and up to 3) Counting out three objects Make dot cards Posting card activity – 1, 2, 3 Quick flash of one, two and three spots in different positions – how many spots can the children see? Children to make three houses. Matches the right number to a group of things e.g. pegs, paperclips etc.</p>	<p>Children to make their own cards which show 1,2,3 Compare quantities of one, two and three using more and fewer</p>		<p>Children to create their own ABAB patterns.</p>	<p>Explore the properties of a triangle Make shapes using 3 match sticks – what shape can you make? Children to organise the tree mice from smallest to biggest.</p>	<p>Children to use measuring cups to make play-dough 1,2,3 cups. Fill three cups with water/ sand etc. Compare the weights of objects.</p>	<p>Play up to four beats on the drum Simon says game linked to four e.g. four fingers, four claps, four hops Find four things in the provision Show four on a five frame Dice rolling activity – all with pictures of actions to complete linked to 1,2 3 and 4 Find numeral 4 in the provision Find numerals 1,2, 3 and 4 in the provision Threading four items onto a lace Show finger numbers –4 (and up to 4) Counting out four objects Make dot cards Posting card activity – 1, 2, 3, 4 Quick flash of one, two, three and four spots in different positions – how many spots can the children see? Matches the right number to a group of things e.g. pegs, paperclips etc.</p>	<p>Children to make their own cards which show 1,2,3,4 Compare quantities of one, two, three and four using more and fewer</p>		<p>Children to spot the mistake of an ABAB pattern e.g. ABABAAB</p>	<p>Explore the properties of a square Make shapes using 4 match sticks – what shape can you make? What shapes can you make using four multi link cubes What can the children spot that is a square in the story?</p>	<p>Children to use measuring cups to make play-dough 1,2,3,4 cups/ measuring spoons. Fill four cups with water/ sand etc.</p>

Spring 2

Spring 2

Number 5						Consolidation of number 1-5					
A Squash and a Squeeze											
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures	Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
<p>Play up to five beats on the drum Simon says game linked to five e.g. five fingers, five claps, five hops Find five things in the provision Show five on a five frame Dice rolling activity – all with pictures of actions to complete linked to 1,2 3, 4 and 5. Find numeral 5 in the provision Find numerals 1,2, 3, 4 and 5 in the provision Threading five items onto a lace Show finger numbers –5 (and up to 5) Counting out five objects Make dot cards Posting card activity – 1, 2, 3, 4, 5 Matches the right number to a group of things 1-5 e.g. pegs, paperclips etc.</p>	<p>Children to make their own cards which show 1,2,3,4, 5 Compare quantities of one, two, three, four and five using more and fewer</p>			<p>Make shapes using 5 match sticks – what shape can you make? What shapes can you make using five multi link cubes</p>	<p>Children to use measuring cups to make play-dough 1,2,3,4, 5 cups/ measuring spoons. Fill four cups with water/ sand etc.</p>	<p>Roll the dice children to work on counting out a given number of objects up to five. Focus on ordering numbers 1-5 and match the corresponding number of objects underneath. Roll a dice children to count out the corresponding number of objects and match to the correct numeral from 1-5.</p>	<p>Compare quantities using the language of more than and fewer than.</p>	<p>Work on number bonds up to 3 practically. Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same.</p>		<p>Look at ways of sharing food/ objects e.g. like splitting a sandwich in half to share with a friend  Describe shapes to the children based on their properties (hide the shape e.g. a circle, triangle, square and rectangle.</p>	<p>Compare the size and length of objects – use the language small, smaller</p>



Summer 2

Number 1						Number 2					
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures	Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
Dear Zoo						Day Monkey, Night Monkey – How many monkeys are there? The animals went in two by two – count the animals as they go onto the ark					
<p>One beat on the drum Simon says game linked to one e.g. one finger, one clap, one hop Find one thing in the provision Show one on a five frame Dice rolling activity – all with pictures of one action to complete Find numeral one in the provision Threading one item onto a lace Show finger numbers – 1 Quick flash of one spot in different positions – how many spots can the children see? Discuss body parts we have one of e.g. one mouth, one nose etc. Matches the right number to a group of things e.g. pegs, paperclips etc.</p>				<p>Circle printing activity – use fruits too e.g. half an orange, potato Focus on positional language – on top, next to, beside, under, in front, behind. Sphere has one curved face.</p>	<p>Does one cup of water fill any of the containers? Children to make predictions based on whether one cup will fill any of them. Focus on the vocab full and empty.  1<sup>st</sup> in the line – lining up/ in a race</p>	<p>Two beats on the drum Simon says game linked to two e.g. one finger, one clap, one hop Find two things in the provision Show two on a five frame Dice rolling activity – all with pictures of two actions to complete Find numeral two in the provision Threading two item onto a lace Show finger numbers – 2 Counting out two objects Make dot cards Posting card activity – 1 and 2 Show finger numbers – 1 and 2 Quick flash of one and two spots in different positions – how many spots can the children see? Matches the right number to a group of things e.g. pegs, paperclips etc.</p>	<p>Compare quantities of one and two using more and fewer</p>		<p>ABAB patters e.g. stick, pinecone children to continue your pattern.</p>	<p>Compare the heights of models using one or two blocks e.g. which is taller/ which is shorter?</p>	<p>Make Play doh link to cups for measuring</p>

Summer 1						Summer 1					
Number 3						Number 4					
The Three Little Pigs Goldilocks and the Three Bears Three Blind Mice						Bear in a square					
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures	Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
<p>Play up to three beats on the drum</p> <p>Simon says game linked to three e.g. three fingers, three claps, three hops</p> <p>Find three things in the provision</p> <p>Show three on a five frame</p> <p>Dice rolling activity – all with pictures of actions to complete linked to 1,2 and 3</p> <p>Find numeral 3 in the provision</p> <p>Find numerals 1,2 and 3 in the provision</p> <p>Threading three items onto a lace</p> <p>Show finger numbers –3 (and up to 3)</p> <p>Counting out three objects</p> <p>Make dot cards</p> <p>Posting card activity – 1, 2, 3</p> <p>Quick flash of one, two and three spots in different positions – how many spots can the children see?</p> <p>Children to make three houses.</p> <p>Matches the right number to a group of things e.g. pegs, paperclips etc.</p>	<p>Children to make their own cards which show 1,2,3</p> <p>Compare quantities of one, two and three using more and fewer</p>		<p>Children to create their own ABAB patterns.</p>	<p>Explore the properties of a triangle</p> <p>Make shapes using 3 match sticks – what shape can you make?</p> <p>Children to organise the tree mice from smallest to biggest.</p>	<p>Children to use measuring cups to make play-dough 1,2,3 cups.</p> <p>Fill three cups with water/ sand etc.</p> <p>Compare the weights of objects.</p>	<p>Play up to four beats on the drum</p> <p>Simon says game linked to four e.g. four fingers, four claps, four hops</p> <p>Find four things in the provision</p> <p>Show four on a five frame</p> <p>Dice rolling activity – all with pictures of actions to complete linked to 1,2 3 and 4</p> <p>Find numeral 4 in the provision</p> <p>Find numerals 1,2, 3 and 4 in the provision</p> <p>Threading four items onto a lace</p> <p>Show finger numbers –4 (and up to 4)</p> <p>Counting out four objects</p> <p>Make dot cards</p> <p>Posting card activity – 1, 2, 3, 4</p> <p>Quick flash of one, two, three and four spots in different positions – how many spots can the children see?</p> <p>Matches the right number to a group of things e.g. pegs, paperclips etc.</p>	<p>Children to make their own cards which show 1,2,3,4</p> <p>Compare quantities of one, two, three and four using more and fewer</p>		<p>Children to spot the mistake of an ABAB pattern e.g. ABABAAB</p>	<p>Explore the properties of a square</p> <p>Make shapes using 4 match sticks – what shape can you make?</p> <p>What shapes can you make using four multi link cubes</p> <p>What can the children spot that is a square in the story?</p>	<p>Children to use measuring cups to make play-dough 1,2,3,4 cups/ measuring spoons.</p> <p>Fill four cups with water/ sand etc.</p>

Summer 2

Summer 2

Number 5						Consolidation of number 1-5					
A Squash and a Squeeze											
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures	Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
<p>Play up to five beats on the drum Simon says game linked to five e.g. five fingers, five claps, five hops Find five things in the provision Show five on a five frame Dice rolling activity – all with pictures of actions to complete linked to 1,2 3, 4 and 5. Find numeral 5 in the provision Find numerals 1,2, 3, 4 and 5 in the provision Threading five items onto a lace Show finger numbers –5 (and up to 5) Counting out five objects Make dot cards Posting card activity – 1, 2, 3, 4, 5 Matches the right number to a group of things 1-5 e.g. pegs, paperclips etc.</p>	<p>Children to make their own cards which show 1,2,3,4, 5 Compare quantities of one, two, three, four and five using more and fewer</p>			<p>Make shapes using 5 match sticks – what shape can you make? What shapes can you make using five multi link cubes</p>	<p>Children to use measuring cups to make play-dough 1,2,3,4, 5 cups/ measuring spoons. Fill four cups with water/ sand etc.</p>	<p>Roll the dice children to work on counting out a given number of objects up to five. Focus on ordering numbers 1-5 and match the corresponding number of objects underneath. Roll a dice children to count out the corresponding number of objects and match to the correct numeral from 1-5.</p>	<p>Compare quantities using the language of more than and fewer than.</p>	<p>Work on number bonds up to 3 practically. Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same.</p>		<p>Look at ways of sharing food/ objects e.g. like splitting a sandwich in half to share with a friend  Describe shapes to the children based on their properties (hide the shape e.g. a circle, triangle, square and rectangle.</p>	<p>Compare the size and length of objects – use the language small, smaller</p>

Children who will be entering Reception in September will continue to consolidate their work on 1-5 and will also focus on matching the correct numeral to a given number of objects from 6-10.

Number 6					
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
<p>Play up to six beats on the drum Simon says game linked to six e.g. six fingers, six claps, six hops Find six things in the provision Threading six items onto a lace Counting out six objects Make dot cards Matches the right number to a group of things 1-6.</p>	<p>Children to make their own cards which show 6 Compare quantities of one, two, three, four, five and six using more and fewer</p>				

Number 7					
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
<p>Play up to seven beats on the drum Simon says game linked to seven e.g. six fingers, seven claps, seven hops Find seven things in the provision Find numeral 7 in the provision Threading seven items onto a lace Counting out seven objects Make dot cards Matches the right number to a group of things 1-7.</p>	<p>Children to make their own cards which show 6 and 7 discuss which is more Compare quantities of one, two, three, four, five, six and seven using more and fewer</p>				

Number 8					
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
<p>Play up to eight beats on the drum Simon says game linked to eight e.g. eight fingers, eight claps, eight hops Find eight things in the provision Find numeral 8 in the provision Threading eight items onto a lace Counting out eight objects Make dot cards Matches the right number to a group of things 1-8.</p>	<p>Compare quantities of one, two, three, four, five, six, seven and eight using more and fewer</p>				

Number 9					
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
<p>Play up to nine beats on the drum Simon says game linked to nine e.g. nine fingers, nine claps, nine hops Find nine things in the provision Find numeral 9 in the provision Threading nine items onto a lace Counting out nine objects Make dot cards Matches the right number to a group of things 1-9.</p>	<p>Compare quantities of one, two, three, four, five, six and seven, eight and nine using more and fewer</p>				

Number 10					
Cardinality and composition	Comparison	Composition	Pattern	Shape and space	Measures
<p>Play up to ten beats on the drum Simon says game linked to ten e.g. ten fingers, ten claps, ten hops Find ten things in the provision Find numeral 10 in the provision Threading ten items onto a lace Counting out ten objects Make dot cards Matches the right number to a group of things 1-10.</p>	<p>Compare quantities of one, two, three, four, five and six, seven, eight, nine and ten using more and fewer</p>				