

St. Nicholas School Mathematics Scheme of Work

Number EYFS Milestones – M4

About this unit: This unit has been divided into six areas. These include; Number, Place Value, Addition and Subtraction, Multiplication and Division, Statistics and Fractions. Each area shows mathematical development and the way mathematical skills may progress in the early stages (EYFS milestones) and latter stages (Bridging level 1– M4). It is important to focus on relating taught skills to the context of real-life situations (developing the pupils' using and applying skills) and to support problem solving skills.

Each area gives ideas for possible cross-curricular links as well as a list of vocabulary. This list is presented in order so that pupils can develop their knowledge and use of language to support their understanding of mathematics. It is important that the children understand the concept of negation before they will be able to fully comprehend the objectives.

Resources:

Some resources have been highlighted within the Scheme of Work, but many more can be used, as the possibilities are infinite. Using the pupils' interests is a useful resource as long as they do not become a distraction. Use imaginative resources that will attract the pupils' attention and engage them. It is also important to use maths during practical and real-life situations, such as providing the correct number of cups at drink time. Other equipment includes; Numicon (develop a Numicon enriched environment), Dienes and counting tools such as Counting Bears, Unifix cubes and Multi-Link. It is also particularly important to use concrete manipulatives alongside any written method taught.

Area	Objectives	Suggested Activities	Cross-curricular	Vocab/
			links	Resources
		Sequencing numbers for counting		
		(Prerequisite for counting)		
0 – 3 years (8–20 months)	To respond to familiar number rhymes, songs/raps, stories, games and turn-taking.	 Rote count to three in anticipation activities and encourage children to participate vocally or through the use of objects or Lycra (stretch out on a slow count of 1, 2, 3 and let go on 'Pizza'). Children join in turn taking by pointing (eye and finger) or using signs/symbols or voice. Children choose/indicate a favourite number rhyme, song, story, game or rap. Use IPAD 'Baby Games' – adult to count the number of taps children do to break the eggs. 	PE – Counting round circles, when passing balls, kicking balls or hitting balls or throwing, catching and bouncing activities. Turn- taking in hockey or tennis etc. Steps along gym apparatus. Counting jumps, steps or rungs. Count the number	words related to number names (one, two, three, four, and five). count
0 – 3 years (16–26 months)	To join in by copying and indicating numbers (including Numicon) in familiar number rhymes, songs/raps, stories, games, registration, social routines.	 Sing counting songs, supported by props or visual cues, such as a presentation on the IWB. Children place objects or move items on the IWB each time they hear a number in the count. Rote count along to a drum beat or claps – ask the children to do one drum beat (or clap) for each number. Encourage them to coordinate their drum beat with their or the adults count. Rote count along with a pendulum or another moving object. Play turn-taking games such as pass the parcel or passing the ball in PE. Count number of children or cups for drink time. Sing number rhymes during care routines (Foundation – Year 2). Use rhythms for children to join in with during social contexts (Year 3-4). Use raps and songs in social and leisure contexts (Year 5 and 6). See Igfl website, Sing Up, Education City and Songs for teaching website. Sing songs using real life objects e.g. water tray and ducks and encourage pupils to remove corresponding prop at the correct time. Count number of props that are left. White Rose Maths: Reception Autumn Term One, Two, Three Read books such as 'The Three Bears', The three Billy Goats Gruff', 'The Three Little Pigs', 'Three Blind Mice'. Ask children to count up to three identical objects. Can you count the objects? Can you in the objects up? Can you touch each object as you count? How many objects are there altogether? Can you put the objects on a five frame? Ask children to count up to three items for a larger group. Can you get me two pencils? I think there are without counting? Does it matter if the pencils are different colours? Which pictures show 3? 	Compare scores e.g. balls in hoops. In dance, use action songs that involve numbers. Children count the number of movements or body parts using e.g. 1 foot or 2 feet for jumps. Count pulse rate. Use Numicon Shapes in activities – run to given number. Hand out equipment – 1:1 correspondence. Estimate how many balls they can throw in a hoop or jumps in a minute etc. Art – Foundation Stage: count marks made. Count number of colours they are mixing or scoops of paint added. Count pieces stuck onto collage/prints made. Build towers and count. Year 1: On shape/patterns walks children count number they can see. Count items on textural collage. Make counting puppets. Year 2: count number of features on faces.	count up to forwards back ones more now first next last again order Five Frame:

			Year 3: Make	
			compositional drawings,	
			counting the number of objects. Make tints (topos	
			counting the amount of	
			black/white paint they are	
		 Make playdough – work with a small group of children to make playdough. Use a recipe that 	adding. Year 4: count the	
		involves measuring in cups. Ask children to measure out the ingredients and count the cups.	number of different	
		Read the story of the 3 bears to the children and explain that we need to set the table n the	colours they can make e.g.	
		home corner ready for breakfast. Children can count out 3 of each item they choose.	green. Year 5: Count different shades of 'Farth'	
		• Making rockets. Encourage the children to count forwards and backwards to 3. Provide photos	colours. Make paper	
		and pictures of rockets. Once children have them, you can count 3, 2, 1, blast off! Rocket can	reliefs by matching	
		also have 1 door, 2 wings, 3 windows etc.	numbers. Year 6: count	
		 Linking to the story of the three bears, encourage children to make the doll's house into the 	features when doing	
		bouse of the three bears. They can count out three of each item that they need for the bouse	observational drawings	
0 2 1/00/0	To follow a coquence of	Children make nistures en netterne using a veriety of chiests (control the number river)	flowers. Count natural	
	To follow a sequence of	Children make pictures of patterns using a variety of objects (control the number given).	materials collected for	
(22-36	numbers through	Together count the number of items used (Use unifix cubes, blocks, large lego, bears of	sculptures.	
months)	movement.	Numicon pegs, Numicon snapes, medium Lego or geobands, objects of interest, Numicon	DT – Foundation Stage:	
		shapes, geoboards, little Lego)	counting transport. Year	
		Children move different parts of their body along with the count e.g. stamping feet, clapping	1: count windows on homes or dears on street	
		hands, nodding or patting their head.	Venr 2: use nunnets to	
		 Count and Turn – children stamp their feet as they count with an adult, throwing their arms 	count or make counting	
		up in the air to emphasise the last number in the count. The children change directions	puppets. Year 3: count	
		without losing the beat, counting 'one' as they turn.	objects put on what they	
		• Children hop forward as they count with an adult, changing directions at the end of the	are making. Year 4/5:	
		sequence.	Estimate and check number of objects their	
		Play instruments when counting with adults (differentiate instruments according to Year	bag/packaging holds. Year	
		group and what they are currently learning).	6: count the flashes of light	
		 Count during activities with adults such as bouncing a ball rone skinning or kicking a football 	made by their torches or	
		(differentiate activities according to Year group and what they are currently learning in PE)	ingredients added for	
		Childron join in action rhymos	making yognurts.	
		• Children johr in action mymes.		
		White Rose Maths Recention Autumn Term		
		Four – All the prompts for counting to 3 can be applied to counting to four, plus these extra ideas		
		• Read books such as 'Washing Line – lez Alborough (Four animals take their items of clothing		
		off a washing line in this lift the flap book) and 'Anno's Counting Book – Mitsumasa Anno (with		
		no words this hook shows the differences between the numbers by adding one more. Each		
		number has its own nage to count the items		
		Have four backets of different items or shells subes marbles ato. Take four items out of one		
		Trave four baskets of uniferent items e.g. shells, cubes, marbles etc. Take four items out of one af the baskets and errors there are sublished and the set of the set		
		of the baskets and arrange them on a whiteboard. How many are there altogether? Can you		
		make the same as mer Hide the whiteboard from the children and rearrange the items. How		
		many are there now? Can you make the same as me? Do you need to get more items from the		

		baskets? Children can then make a number and ask others to match. What other items from		
		the outside can you use to show me 4? E.g. leaves, conkers, flowers etc		
		• Washing line – linking to the book suggested, provide children with items to hang on the		
		washing line. Can they count as they hang the items? How many items do they have		
		altogether? Can we count then back into the basket?		
		• Small world – In the small world area, create two areas (barns, fields) with signs that say 'two		
		legs' and 'four legs. Can children sort the animals into the correct areas by counting their legs?		
		• In the outside area, place signs for 2 wheels, 3 wheels and 4 wheels. When children park their		
		bikes or toy cars, can they match the vehicle to the correct sign?		
		• Create signs for each area to show how many children can play there. Work with the children		
		to make the signs and get the equipment you need e.g. four people can paint, how many		
		aprons od we need?		
3-4 years	To understand	• Join in counting songs, rhymes or raps (age dependent). Miss out numbers or get them in the		
(30-50	numbers in the number	wrong order. See if children indicate the mistake.		
months)	system are always in	Count along numbers on the IWB supported by Numicon shapes – see if children indicate		
	the same order.	mistake in the count.		
		 Ask children to count to 5 and then 10 using objects e.g. spinning light stick. 		
	To rote count to 5 and	 Repeat previous number activities but with increasing independence. 		
	then 10 with increasing			
	confidence and	White Rose Maths Reception Autumn term		
	independence.	Five - All the prompts for counting to 3 can be applied to counting to four, plus these extra ideas		
		 Books/Songs – Five Little speckled frogs, five little ducks, five currant buns, Five Men in a Flying 		
		Saucer – Dan Crisp.		
		• Can we count to five on our fingers? Can we count back from 5? Use puppets on each finger to		
		count to five on one hand. Cab children look at your hand and subitise how many puppets there		
		are?		
		ବ ବ 🔗 🚓 🚣		
		• Show children a E th hirthday card. What number is on the front? Let's put the correct number		
		of candles on the cake. Can we count them one by one? How many are there altogether? What		
		else could we count out for the birthday narty?		
		 Use a five frame to count out five objects from a larger groups. How do we know there are five? 		
		IS the five frame full?		
			•	
		 Hoe corner- provide children with party hats, plates, cups etc. to set the home corner ready for 		
		 Image: Second second		

Reception (40-60 months)	To indicate the next number in a familiar sequence (one, two) using signs/symbols/words/p ictures	 Writing area – Provide children with card t make birthday cards for the birthday party. Can they copy the numeral 5 on to the front of the card? What else cold we draw to show 5? Outdoor – Provide children with a tray that has a range of natural items in – leaves, conkers etc. Set out the buckets that have the numbers 1- 5 on the front. Can we put the right number of items in each buckets? Can we take a bucket and go and find up to 5 items? Water – Act out the different songs we have been singing this week. Provide children with 5 ducks or 5 frogs. Can the children with 5 separate connecting blocks e.g. lego, Duplo, cubes. Encourage them to build a tower and then to explore other shapes they could build with 5 blocks. How many different ways can they find? NB This task will reinforce the counting principles and allow you to assess the children's confidence in stable order, one to one, cardinality, and especially order irrelevance. The children may build the same shape in different orientations so encourage them to turn the shapes around . Children count on fingers. Children count number with the last sitting down each time (skip over the sitting children). Count until only one child is left. Thread beads or make patterns using pegs encouraging child to indicate the following number through signs or symbols or pictures or vocally. 		
		Mathletics		
		Early Counting Skills Finding quantities	I	
0 – 3 years (8–20 months)	To participate in social counting. To know objects are permanent. To show an awareness of varying quantities such as 'one', 'few', 'lots', 'more' and 'less'	 Children count out how many items are needed for a range of social situations e.g. fruit and drink, book bags, number of scissors needed for children to complete work at different tables. During morning registrations count the number of pupils in class or away. Play simple games such as throwing balls into a basket and relate to the numeral 1 and symbol lots to show how many there are. Repeat later for 'more' and 'less' and 'few'. Show two bowls. One containing one object, the other containing lots. Encourage the child to label the bowls using symbols/signs/verbally. Repeat for few, more and less. Have groups of lots of objects – get the child to give you one and label the new sets. Encourage children to choose 1 or lots of things needed to complete an activity e.g. Art materials. 	Science – Year 1/2: Count number of pushes and pulls. Count water added to plants, number of parts of the human body, number of sounds they hear, number of sources of light. Children order quantities of each material they have. Year 2: count in ordinal numbers when pushing cars in races. Year	Develop understanding of negation words related to number names (one, two, three, four, and

	using	Using hand, show 1 finger and then show lots of fingers	3: sort rocks and count	five and
	signs (symbols (nictures	 Use (Numisen' change to chew which is more and loss) 	them. Count the number	nve and
	signs/symbols/pictures	• Ose Numicon shapes to show which is more and less.	teeth or seeds. Year 4:	extend to
	/worus/	• Children use their body e.g. fingers, arms, legs, feet, to show one and two.	count the number of bones	10).
	objects/Numicon.	 Use instruments or clapping beats to indicate one or two. 	in the body, steps in food	count
		 Make one or two prints in paint or wet sand. 	in the life cycles 11se	count up
	To indicate one or two	 Giving out one or two items to peers with adult support. 	ordinal numbers for life	to
	using	 Counting one or two steps, jumps, bounces, throws, hits or kicks in PE. 	cycles. Count heart beats	lots (a lot)
	signs/symbols/pictures	• Give pictures containing one or two objects and encourage children to indicate how many	or number of exercise done	
	/words/	using signs or words.	in minutes. Count the	some
	objects/Numicon.	Encourage children to line up in ones or twos	number of planets. Year b:	small
		Hide and find Numicon Shanes, encouraging children to sign/say what shane they have	added during experiments.	all
		 When using role play areas such as shons encourage children to show one or two items 	PSHE – Foundation	many
		including coins or poppios	Stage: number of	no more
		Blay games where points are given in energy or tweet, shildren record points using tally marks	children/adults in the class	as much
		 Play games where points are given in ones of twos – children record points using tany marks or pictures or objects ate 	or their family. Year 1:	as
		or pictures or objects etc.	class numbers. Year 2/3:	forwards
		• When offering things such as food ask now many the children would like, one of two?	count jobs – role play jobs	loiwaius
		• On visits look at the number of things the children can see e.g. can you see one bus or two	(shops). Year 4 - 6: role	раск
		buses?	plays a variety of jobs	ones
		Use computer activities such as Number Run.	litoroov KG1. count	more
0 – 3 years	To understand 1:1	• Use containers to support 1:1 placing, for example, children place monsters on each bed or	characters in stories	next
(16-26	correspondence in a	cups on each saucer and older children put things in particular places or match each CD to its	number of pages in books.	few
months)	range of contexts.	on case.	Use number stories. Look	most
·		• Give daily experiences of 1:1 matching, for example, pass out snacks, put pegs in holes or inset	at numbers on	enough
	To touch and move	puzzle pieces in holes, give out hags or pencils. Increase the number of factors to see if the	instructions. Use poems	again
	objects as they are	children have awareness that there is too much or too little	Children write captions for	loco
	counted.	 Make ice for cooking getting the children to put water in 1 section of the ice tray at a time 	photos of numbers and	less
		 Add ingredients 1 at a time to things or growthing sake mixture in the paper saces 	quantities ('There are 3	equal
	To line up and point to	• Add ingredients 1 at a time to timigs e.g. putting take mixture in the paper cases.	bears'). Count the number	how
	objects as they are	Use Numicon snapes, baseboards and pegs. Children match them to the snapes.	KS2: Count the number of	many
	counted.	• Glue or create a sheet on the computer with a specific number of squares or beds on each.	letters in the alphabet.	difference
		Children match bears or other objects of interest to them counting them as they match and	Count the number of	quantity
	To point or mark	move them.	scenes, acts, characters in	estimate
	nictures as they are	• With the child, cut up fruit. Child places fruit on a plate for snack time counting each piece as	plays. Look at time	unequal
	counted	it is put on. Repeat for other items in cooking.	numbers for recounts and	covoral
	counteu.	 Children count coats or bags as they give them out. 	instructions. Use number	Several
		• Children post letters, counting them as they put them in the post box (use at Christmas for	stories and poems.	
		Christmas cards).	History – Foundation	
		Roll a large die Children place objects on each dot counting them	Stage: look at numbers	
		Motoh Numioon page to shapes	KS1/2: look at numbers	
	1	 Wratch Numicon pegs to snapes. 		

		 Use 'Baby Games' on the IPAD counting the number of times they touch the egg before it breaks. 	involved in past societies – number of oars on Viking ships, number of rations	
		 Use computer activities such as Percy Keeps or Number Run Counting. 	during the war,	
		 Line up objects of interest and point to them and count. 	reconstructing Victorian	
		 Line up ingredients for cooking and count them by pointing. 	Geography – KS1:	
		 Line up spots in PE for children to sit on and count them by pointing. 	counted things related to	
		• Line up children in the class for assembly or play and count them by pointing.	topics during local walks.	
		 Park cars into numbered parking spaces that are in a line (in a toy garage) 	Collect, estimate and count	
		 Use motivating resources to practice the skill of pointing such as a magic wand or torch or 	maps. KS2: count places on	
		nunnet nointing hand stick etc	maps. Make and count	
0 - 3 years	To count reliably up to	Lice (Where's Walky' nistures for older children. Children point and count cortain	tallies during field trips.	
(22-36	5 and then extend to	Ose where's wany pictures for order children. Children point and count certain	Count items related to	
months)	10 objects $(30 - 50)$	People/objects of mark them on.	animals in the rainforest	
,	months)	Use simple storybooks from topic work for lower years. Children point to characters of other	(use books). Compare the	
	······,	items and count them. Copy pages for the children to mark on.	quantities.	
	To compare the	Use Percy's Maths to count objects on the screen.	ICI – Foundation/Year 1:	
	difference in quantities.	Children use Smartboard pens to mark off object of interest or topic related objects on the	objects on the screen or	
		board.	that they move. Count	
		• Play games such as snap encouraging children to count the number of cards each player has	sounds they make or hear	
		or to give out cards to each player.	(algital). Year 2: Present work linked to number and	
		• During fruit ask them to count how much fruit each person has or give a particular number of	quantities. Look at	
		pieces to each person.	number of steps they give	
		 In cooking, ask them to add particular number of ingredients or count how many ingredients 	a floor robot. Year 3: Search for counting games	
		there are.	Count the steps added to	
		Ask children to count the number of children in groups for different activities or put children	Floor Robots. Present text	
		into groups of a particular number.	and images to do with	
		• Have quizzes and score boards. Children record or count the number of tokens or tallies each	number or counting books. Year 4: counting linked to	
		child/team has.	graphs. Year 5: counting	
		• Count coins when using shop role play.	sounds made using the	
		• Children count objects as they are hidden (support remembering skills).	computer. Counting linked	
		• Hide objects (related to topic) in sensory materials such as sand. Children scoop up some	added to roamers. Year 6:	
		sand and count how many objects they have found.	counting linked to graphs.	
		• Use sieve to fish items out of water and count how many – possible link to science and	Take photos of number.	
		materials.	Robots.	
		 Using picture cards children find all the cards with 2 or 4 objects on etc. 	Link counting to adding	
		• Play dice games e.g. children throw a die and add that many cups of water or sand to a	steps when completing	
		container. Who can fill the container up the quickest?	work on programming.	
		• Play 'Hide and Seek' with objects. Hide certain themed objects around the classroom or an	sonas and actions lage	
		outside area. Children find the objects and count how many.	appropriate). Count the	
		Children make sets of objects.	number of beats in music.	

	 Use beads to make bracelets or necklaces – children use a certain number of different coloured beads. Make pictures of coloured shapes. Children count how many of each shape or colour they have stuck on. Use a circular track divided into different coloured squares. Children roll a dice and count round the track. They take a cube to match the colour. Children use the cubes to build towers of matching colours. Look at who has the tallest tower at the end. Children count the number of cubes. Put objects/spots on paper – count how many. Use a mirror and encourage children to count how many now. Change the position of the mirror and repeat. Give each child 5 or 10 objects on a plate. Roll an appropriate numbered die. That child gives that many objects to the person on their right. Continue until each person has had a turn. Talk about how many objects they have now and who has the most or least. 	Children compare the number of drum beats to the number of bell rings. Cooking – Counting number of ingredients being added or number of stirs. RE – Look at numbers linked to different religions e.g. days of advent.	
To compare an identical set of objects	 White Rose Maths Reception Autumn Term Compare identical objects. It is important to teach children the correct vocabulary for comparison: more than, fewer than, equal to, the same as. Remember that children are currently working with numbers to 5. Dot paper plates or cards. Hold up 2 dot plates. Encourage children to count and compare the dots. Which plate has more dots? Fewer dots? Can they find 2 plates with the same number of dots? Image: Compare the children to line up their groups to make direct comparisons: 		
	 Provide many opportunities for children to count two sets of identical objects and compare them. How many are there in this group? Which group has more? Which group has fewer? Are the groups equal? How do you know? Provide children with an amount and challenge them to find a quantity that is fewer than, more than or equal to the amount e.g.: Here are Can you show me more than? Can you show me fewer than? Can you show me fewer than? Can you show me an amount equal to? How do you know? 		

	 Sand- Make towers of peppers. Who can make the tallest tower. How many pebbles are in each tower? Does your tower have more or less pebbles than your friend's tower? Can you each make a tower using the same number of pebbles? Small world – Provide children with the numbers 1-5 on cards and various small similar items such as people, toy cars, plastic animals, etc. Ask them to show you fewer, the same or more than the number they choose. Maths Area – Children use the number shapes, linking cubes, dot plates and numeral cards to match and compare. Show the children a domino, ask them to compare the number of spots on each side of the domino. Are there the same, more or fewer dots? Outdoor – Ask them to find items outdoors (i.e. conkers, leaves, sticks, stones) and compare the amounts. Provide children with the numbers 1 – 5 on laminated cards. Ask them to show 	
	you fewer, the same or more than they number they choose.	
To compare a non- identical set of objects	Compare non-identical items. Ensure that you continue to model and encourage the children to use the correct vocabulary: more than, fewer than, equal to, the same as. Remember that children are currently working with numbers to 5.	
	 Read stories such as 'The Gingerbread Man', 'The Enormous Turnip' or 'Mr Grumpy's Outing'. Select images from different points in the stories and ask children to compare the number of people involved in each picture. Provide children with pictures of dots, fingers, objects on five frames, number shapes etc. Ask children to match and compare the amounts from the various visual images. 	
	 Provide lots of opportunities for children to count two sets of different objects and compare them using correct vocabulary: How manyare ther ein this groups? How manyare there in this groups? Which groups has more? Which groups has fewer? Are the groups equal? How do you know? Provide opportunities to compare smaller quantities of large items with larger quantity of 	
	 small items to help children make the distinctions between size and quantity. E.g. 2 bowls are larger than 5 spoons and take up more space. Teddy Bear Picnic – The 3 bears are invited to lunch! Ask the children to provide chairs, plates, cups and spoons for each bear. DO they have enough of everything? What if another baby bear invites 2 of his friends? 	
	 Maths Area – Provide children with a new numbers each day. Ask them to arrange or draw objects o show the same as, fewer than or more than this number. 	

		 Number of the day is 3 Finger gym – Work in pairs. Grab a handful f objects such as pebbles or conkers. Does your partner have more than you, fewer than you or do you have an equal amount? Providing children with five frames will help them compare more easily. Outside – Build a tower using large outdoor blocks, cushions or crates. Challenge the children to make a shorter tower, a taller tower. How many crates or blocks did they use? What is the tallest/shortest tower ty can build? Washing Line – Provide children with pictures of objects to arrange on the washing line in order. Begin with 2 pictures and add more as the children gain confidence. As the children work encourage them to sue language of more than and fewer than to compare and order the pictures. Encourage them to 2 saying 4 is more but then need to move it along in order to put 3 into the correct place. They will see that 3 is more than 2 but less than 4.
3- 4 years (30-50 months)	To understand the last number in the count is how many. To recognise how many objects there are without counting. To understand the order of objects does not affect the cardinal numbers.	 Develop understanding of more by encouraging pupils to ask for more during a variety of activities such as fruit and drink, art, cooking or during experiments in science. Highlight that what they have is getting bigger. Repeat for less by removing objects and highlighting that what they have is getting smaller. Use signs and symbols. Have plates/boxes/containers of motivating items. Discuss which has more or which has less. Children choose the one they want. In games, compare the score/tokens/cards. Who has more or less? Or who won the most or least games for shorter activities. Build towers comparing the number of cubes/height. Look at children's art work, in particular, collage. Who has more or less of different materials stuck on? In shops, who has more or less coins? Things in the room – children compare objects in the room and decide what there is more or less of. Place 'Things in the Room' cards face down. Children turn two over and compare e.g.

 Comparing names – have rows of squares. Children write their names putting each letter in its own square. In the row underneath they write a friends/peers name. Compare which name has more or less letters. Measure height or body parts using strips of paper and compare them. During a range of counting activities and games emphasise the last number in the count. Always repeat the last number in the count and encourage the children to do so too. Change the intonation of your voice for the last number. See counting games and activities suggested above. Use computer activities such as Percy's World of Numbers. Use the Numicon shapes and pegs to develop the children's understanding of the cardinal number. Play 'Grab a Handful' – place objects in a bag (vary the size depending on the age and motor skills of the child). Children grab a handful and say how many there are without counting. Check by counting. Begin by letting the children feel what 1 or 2 of the objects is like in their hands. Play a range of games with dice gradually building up the children's confidence to say the number without counting the dots. During games keep score with tokens or something similar. Emphasise the number and encourage children to repeat it. Gradually see if they can say how many tokens they have each time without counting. Always check afterward to increase confidence. Give children a given number of objects to order or make different patterns with. Highlight that each different order/pattern does not change then umber of objects there are (count each time and emphasise 'Same'). Possible activities include: Ordering beads on necklaces. Cubes/blocks when building towers. Patterns on pegboards. Decorations on cakes. Using the same number of printing blocks in art but making and counting different patterns. Patterns on cakes. Putti	
Arranging pieces of work for display. Dutting up decorptions	
Putting up decorations. Candles on a sake	
Candles on a cake.	
White Rose Maths Recention Spring Term	
While Rose Wallis Reception Spring Term NB All prompte for counting to 5 can be applied to counting to 6.7 and 8 in addition to these ideas	
IND All prompts for counting to 5 can be applied to counting to 6, 7 and 8 in addition to these ideas.	

		 Songs and Books: Days of the week counting songs, 1, 2 buckle my shoe, Little Miss Muffet, 'The Bad Tempered Ladybird – Eric Carle, 'The Very Busy Spider – Eric Carle Encourage the children to think about where we see 6, 7 and 8 in everyday life and to make collections of 6, 7 and 8 objects in the classroom. How many legs does the ladybird have? How many spots? Use the counters to add 6 spots to the other ladybirds. Can you find more than one way to do it? How many colours of you see in the rainbow? Can you paint a rainbow with 7 colours? Can you make rainbows using objects around the classroom? How many colours did you use? Sort items into 6, 7 and 8. How else cold you show 6, 7 and 8? 	
		 Modelling – Make springy-leg spiders. Provide card circles for children to collage and strips of black paper. Show them how to fold each strip into zigzags o make 8 springy legs. They could also stick on 8 eyes. Outdoors – Go on a minibeast hunt. Use magnifying pots to observe the creatures carefully. How many legs can they see? Provide pictures to help them identify what they find. Loose Parts – Provide the children with a range of loose parts such as buttons, beads, pebbles, shells, seeds and some ten frames. Ask them to count 6, 7 and 8 items onto the 10 frames. Which 10 frames show 6? Which show 8? Can they see without counting? The children may also enjoy making large 10 frames outside using rules/metre sticks. Weather Chart – Provide simple templates to show the 7 days of the week. With the children, record the weather daily. Discuss what the weather is like today, wat it was like yesterday. Count how many sunny days, windy days, rainy days there have been? Could we have 8 cloudy days in one week? 	
<i>Reception</i> (40-60 months)	To estimate and check by counting a small quantity to 10 and then 20.	 Use a variety of containers and encourage the children to estimate the number of objects of interest in them. Children check their estimates by counting. Children estimate how many children in their Year group that day. They count how many and compare to their estimate. Children estimate how many cups or pieces fruit needs to be cut into. Children estimate how many peers had breakfast. Children estimate how many balls they can get or a peer can get in a net or in goal. They check. In shops, they estimate the number of coins in a purse. On local walks or trips, they estimate the number of different shops or transport they might see and check by counting. 	

Mathematics – Number: Number

		 Create a board with a shape in the middle and ask 'how many (motivating objects) do you think will fit in the rectangle?' Pupils estimate and check by counting. Discuss their findings. Try different shapes and sizes of shapes. White Rose Maths Reception Spring Term NB: All the prompts for counting to earlier numbers can be applied to counting to 9 and 10, in addition to these ideas. How do Dinosaurs count to 10? Yolen and Teague, Ten Terrible Dinosaurs – Paul Stickland, Feast for 10 – Cathryn Falwell. Draw a large hopscotch grid for the children to jump along and show them how to play. Show me 10 fingers. Now show me 9 fingers. Did you need to count? Can we count back from 10? Show me 10 beads on the bead string. Sow me 9. Shoe me 10 cubes on the 10 frame. What do you notice? Could you put 9 or 10 buttons on the 10 frame without counting them? Word the children a set of dominoes. What do they notice about the dominoes? Can they sort the dominoes? How many can they find with 9 spots? With 10 spots? Ask the children to count out 9 or 10 small objects. Can they find different ways to arrange their items? What do they notice? Outdoors – Provide a starting line. Ask the children to take 9 giant steps, 9 tiny steos,9 jumps, 9 tiptoes etc. How far do they travel each time? Who can travel the furthest in 9 giant steps? Who can travel the shortest distance with 9 tiny steps? Sand – Make the sand tray into a min beach by adding pebbles and shells etc. Set out buckets? Can we take a bucket and go and find up to 10 items? Class book – Make a class counting book with a double page spread for each number 1-10. Stick on drawing or photographs of objects the children have collected. Discuss the different ways the children have represented each number. Class book – Make a class counting book with a double page spread for each number 1-10. Stick on drawing or photographs of objects the children have collected. Discuss the		
Area	Objectives	Suggested Activities	Cross-curricular	Vocab
		 For all counting activities use: A variety of songs/chants (some can be found on Education City). Counting sticks. Beats of drums or claps Number tracks/lines – large for children to walk along, display lines and table lines. Numicon Tens number line. 	links	

		Hundred squares.		
		Multiplication squares.		
		 Counting pupils in Year groups or Key Stages. 		
		 Helping collect and sort equipment such as pencils by grouping them in 2s or 4s and 		
		counting.		
		Use a trundle wheel to count the number of metres across various parts of the School or		
		count the number of steps.		
		 Count sequences of numbers on house doors – odd and even. 		
Bridging 1	a small given number.	 During number songs/raps/rnymes, stop counting at a particular number and encourage the children to continue counting. Make a balloon rocket and inflate it. Start counting but pause. Encourage the children to carry on counting. When they reach 10 (or another agreed number), let the rocket go 	results in investigations e.g. how much more a plant has grown or	to 10 ordinal
		 Involve children in counts for the next activity 	Putting results in order e.g.	numbers
		 On school trips or walks around the School, count the number of steps. Start count or give a 	which material melted	to 10
		small number for the children to count on from when taking each step.	first, second, third etc.	count on
		• Cover up – children work on whatever number they have mastered in counting. They lay their	role play jobs.	to 20
		hand over part of the objects, saying the number they have covered, and then add on the	Literacy – Use number	10 20, then 50
		remaining ones by counting from there. Use objects of interest or objects related to topics.	stories and poems. Look	and then
		• Keep Silent Game – ask the children to bend to one side two times, counting silently, then	at numbers on instructions	
		bend to the other side, counting aloud from three to six. This cycle is repeated over and over	numbers) e.g. recipes –	100
		again with the children being silent for the first two counts. Change the number of times the	amounts, how much more	steps
		children do the first motion. Play several times keeping the total the same. Extend to	or less (counting on). Look	multiples
		different totals and vary the number of silent counts. This activity can be done using	(ordinal numbers).	
		children will enjoy and is age appropriate). If the children are confident with counting on and	History – numbers in	
		to different totals look at counting on from a given number	previous points in history	
		 Use computer games such as Percy Keens Counting and Percy's World of Numbers 	(Victorian number systems, Roman	
			numerals). Dates and	Cockatoo
		White Rose Maths Year 1 Autumn Term	periods of times.	s by
		Count Forwards	Geograpny –count things related to topics	Quentin
		Children develop counting to continue a number sequence forwards using numerals, words	during local walks. Collect,	Blake
		and images. Children should be able to find consecutive and non-consecutive missing number	estimate and count litter –	Mr
		in sequences. Children should also be aware of the numbers 0.	children count objects in arouns (use different	Magnolia
		Complete the number tracks	multiples). Count tallies of	by
		1 3 4 5 6 8 9 10	items during trips and school learning walks (multiples of 5).	Quentin Balke
			ICT – Use computer	
			activities on Purple Mash and Education City. Look	
		• Fill in the missing numbers:	at counting on and	
		, 1, 2, 3 3, 4,, 6 1,, 3, six,,, nine	counting in multiples when	

To count one more and	White Rose Maths	making graphs on the	
one less to numbers 10	Count One More	computer. Write	
10 and then 20	• When children are confident with numbers to 10 (and then 20), the language of one more can	Robots using ordinal	
	be introduced. Children know that one more is the number after and they should use their	numbers.	
	counting skills or a number track to help them. The use of dice or dominoes should be sued to	Link counting to adding	
	reinforce subitising skills.	steps when completing	
	 Complete each box using a picture, a numeral and a word 	work on programming.	
		Wusic – Use number	
		appropriate). Count the	
	3 one more	number of beats in music	
	one more	including counting in	
		multiples.	
	 Roll a dice (this can be a 12 sided dice or twenty sided dice when working with numbers to 	COOKING – counting on	
	20). Represent the number using counters on a track, and add 1 more. The complete the	Lookina at ordinal	
	sentence: 1 more than is is one more than	numbers in recipes.	
	 Choose a number card from 0-9 (10-20 when working with bigger numbers) then complete 	RE – Look at numbers	
	the table.	linked to different religions	
	Number in Words Number track	e.g. days of advent.	
	Sentence		
	One more than is		
	Count one less		
	Children should relate one less to one more and understand that it is the opposite. Make clear		
	to the children that 1 less is the numbers before the starting number. The use of dice and		
	dominoes should be used to reinforce the subitising skills.		
	 Complete each box using a picture, a numeral and a word. 		
	1 <u>one less</u>		
	nine <u>one less</u>		
	 Boll a sign represent the numbers suing counters on a track and find 1 less. The complete the 		
	sentences: 1 less than is is is one less than		
	Choose a number card from 1-10 (10-20 when working with higger numbers) and complete		
	the table		
	Number in Number in words Number track		
	More than sentence Less than sentence		

Compare up to 10	White Dece Methe Decention Spring Term
	 Ask questions to make comparisons for a real purpose. Are there more children having sandwiches for dinner or school dinners? Are there more at home or at school? Standing up or sitting down? Which book shall we read at the end of the day? Use cubes to vote for your favourite. Dominoes – Ask the children to find all the dominos with 7 spots. Can they make sets with more than and fewer than 7spots.? Use the dominoes to play 'Who has more' in pairs. With the dominoes face down, choose one domino each. How many spots does each domino have? The player with the most spots can collect a point. Can you record your points? NB you can also play with the Ladybird game
	 Provide a feely bag filled with different numicon shapes. Ask the children to work in groups of 3. Each child takes a number shape from the bag. Can they identify which number they have? Work together to compare and order the shapes. Who has the largest number? Who has the smallest number? Does anyone have the same? Loose Parts – Provide the children with a collection of items to sort. Encourage the children to sort the items into sets and then compare the quantity in each set. Can you find a set with more than this one? Can you find 2 sets with the same quantity. Finger gym – Make a caterpillar by threading 5 beads onto a pipe cleaner. Ask the children to make caterpillars with more beads and fewer beads than you. Which caterpillar is the longest? Which is the shortest? Can we arrange the caterpillars in order? NB you can also use threading beads to make necklaces. Outdoors – Play skittles. Ask the children to record how many skittles they know down each time. Did they knock more down this time or last time? Did they know more or fewer skittles than their friend? Are the more skittles still standing or more knocked over
To count and use ordinal numbers to 10.	 Make race tracks for toy cars/animals – children race them and discuss places. Ask them questions about who came first, second, last? Introduce labels. When the children are lining up – ask questions about where different children are positioned. Use symbols. Ask children to line up in different places e.g. you are first; you are last and so on. Children keep track of places during sports day. Plan a party or write a recipe and discuss what the children will need to do or put in first, second or last. Children follow their list or recipe. During PE lessons, look at the position of children or teams during different activities and games.

Mathematics – Number: Number

		 When rehearsing and doing assemblies talk about who will go on first or speak first and third and last. Use ordinal number story problems e.g. John has 6 dustbins lined up for collection. The Dustman comes and he picks up the fourth dustbin first. Or, Merlin the magician put out 10 blocks in a row. Abracadabra; he made the second and last blocks disappear (use props) 	
Bridging 2	To count confidently from 0-20, then to 50 and then to and across 100.	 White Rose Maths Reception Summer Term Provide opportunities for the children to count beyond 10 learning the number name in order. Once children can confidently say the number names, provide opportunities for them to match them in quantifies and symbols. Prompt children to recognise that as we count, each number is one more than the number before building staircase to show the growing pattern within number to 20 Counting games such as I count, you count can be applied to numbers beyond 10. Last man standing can be adapted by asking children to count round in a circle from 1-20. The person who says 20 sits down and the count starts again from 1. If you are playing with a large group, the children may want to choose 3 or 4 numbers which would eliminate them rather than just 1. Encourage the children to represent numbers to 20 in different ways Image: the children and arrange themselves in order. Can they see any patterns in the numbers? Image: the children to color to can they see any patterns in the numbers? Image: the children to color to be applied to a shells, buttons, beads or pebbles for the children to count. Encourage the children to estimate how many first and to arrange the items onto 10 frames as they count to help them see the full ten and part of the next ten. Provide different track 1-20 for each child. Children to take turns to roll a dice. If they roll 1-5, the collect the corresponding counters to fill their track. If they roll a 6, they go back to the start. 	18 subtraining 18 subtraining 18 subtraining 19 subtraining 10 subtraining

	 Don't' say 20 – A game for 2 players. On their turn, the players choose to continue the count with 1, 2 or 3 numbers. The next player continues the count e.g. if the first player counts 1,2, the second player could count 3 or 3,4 or 3, 4, 5. The aim is to avoid saying 20. Two 10 frames and 20 counters could be sued to build the numbers as they count. Bingo – Have sets of numerals from 11 to 20 and corresponding pictorial representations. Ask the children to choose 4 picture cards one by one. If the children have a matching picture they place a counter on their card. The first play to cover all their cards wins. 	
To count and write numbers to 20	 White Rose Maths Year 1 Autumn Term Count and Write numbers to 20 Children are building on their existing knowledge of counting forwards and backwards by introducing the numbers 11-20. Children should explore the meaning of the suffix 'teen' and what this tells us about a number. 11, 12, 13 and 15 are usually difficult for children to understand because they cannot hear the single digit in the name like others e.g. sixteen – six ones and a ten. Match the representations to the correct numbers 12 7 10 Write the number show on the ten frames in numerals and words. Also use numicon to show value of numbers. Use your ten frame/numicon to show me the value of these numbers: fourteen, 18, nine, 16 etc. Fill in the missing numbers 15 17 16 17 16 	
	 Numbers from 11-20 Children use concrete and pictorial representations to explore the different ways to represent a number. Children should be encouraged to use multiple representations. Use numicon/cubes to show me 13. Compare yours with a partner. What's the same? What's different? Practise and consolidate making numbers from 11-20 using pictures cards/pictorial representations/numicon/ten frames Complete the table 	

		Numeral	Representation		
		17			
		13			
	• L	Jsing two ten frames,	show me a number: N	More than 12, less than 20, equal to 10+10 etc	
	Tens and	Ones			
	• C h d t r	Children learn each nu having just tens and no lifferent ways. Discuss hem concretely or dra epresents 1 one.	mber form 11-19 has o ones. Children still n s 1 ten being equal to aw them as 'sticks and	'1 ten and some more'. They will see 10 and 20 as need to understand that numbers can be seen in 10 ones. Base 10 can be used here. They can use d bricks. A line represents one ten and a dot	
	• (Jse the part-whole mo	odel to complete the s	sentences:	
	N C T	Ay number is Dne part is, the The whole is	e other part is		
	N 1 T	Ay number is t hastens and _ he whole is iill in the ten frames w	ones vith counters to show	14 and complete the sentence	
	1	Id has ten and ones			
To know one more and one less for any number up to 30 and then 50	Count On E s c M	e More and One Less incourage children to uch as number lines a hildren understand it Aake one more and or	use counting skills to nd number tracks. Als is one more 1 and no ne less than these nur	find one more and one less and use resources so use concrete resources e.g. base 10, so that t one more 10. mbers	



White Rose Maths Year 1 Autumn Term Bridging 3 To count confidently from 1 – 100 Count backwards Children develop counting to continue a number sequence backwards using numerals, words • and images. Children should be able to find consecutive and non-consecutive missing numbers in sequences. Children should also be aware of the numbers 0. Write the numerals to match the cubes. Can you describe the pattern? ٠ 1111. Complete the numbers tracks ٠ 10 8 7 6 3 2 1 nine eight six four three two ten Fill in the empty boxes ٠ 6 \mathbf{H} **One More One Less** To know 1 more and 1 • Children find one more and one less than given numbers to 50, then 100. They build on the less than any numbers prior knowledge of numbers to 10 and 20. Children should use equipment to build the numbers before using number tacks and 1-50 grids. Encourage the children to notice that it is to 100 the ones column that changes most of the time apart from when the ones number is nine. Fill in the blanks: • Solution 🗢 🗢 🗢 🗢 🗢 🗢 One more than ____ is ____ There are ____ donuts. One less than ____ is ____ Build and find one more and one less. . One more than ____ is ____ One less than ____ is ____ \mathbf{v} 45 One more than ____ is ____ -000-00000000 One less than ____ is ____ Find one more and one less: . One more than ____ is ____ 36 37 38 39 40 41 42 43 44 45 One less than ___ is ___ One more than ____ is ____ One less than ____ is ____ One more than ____ is ____

To compare numerals and say which is bigge and which is smaller	 Compare groups of objects Once children are confident making and exploring numbers greater than 10, they can begin to build on this by comparing groups of numbers. Continue to use vocabulary of comparison such as: greater than, less than and equal to. Which is greater? By how many? A COMPARE THE PROVIDED AND AND AND AND AND AND AND AND AND AN	
	and using inequality signs.	
	 Compare Numbers Children build on comparing numbers by comparing numbers to 20, 50 and 100. Children can start to be given abstract numbers written in digits and need to be encouraged to use previous learning to choose an efficient method to compare numbers. Circle the greatest numbers Twelve Twenty Four Seventy two Seventeen 35 15 Here are tow number cards. Use a number track to explain which one is smaller and by how many 13 17 11 12 13 14 15 16 17 18 19 20 Complete the statements 14 9 20 13 20 	



Mathematics – Number: Number

		 Colour the 7th flower blue. Start counting from the left/ Colour in another flower and complete the sentence. Theflower is	
Milestone 1	To count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. Count numbers to 100 in numerals; count in multiples of twos, fives and tens	 Compare objects within 50 Children compare two sets of objects using the language of 'more than', 'less than' and 'equal to'. Children also use the inequality symbols to compare sets of objects, including visual ones to support e.g. Image: Image: I	

	is more than		Fva	***		
	has more mi	ffins	210			
٠	Fill in the blanks:	Is less than				
•	Complete each box usin	; <,> or =. Say an	d write the number	sentences for each	one.	
	35 56 37 38 (29)					
	2 tens and 3 tens and 6 aprox	_				
Compar	o numbors within 50					
•	Children continue to bu	d on comparing	of practical objects	within 50 children	now compare	
	two numbers within 50	ising the inequa	lity symbols. Childre	n should also use th	he language	
	two numbers within 50 'more than', 'less than' a	ising the inequand 'equal to' alc	lity symbols. Childre ongside the correct s	n should also use th ymbols to compare	he language e numbers.	
•	two numbers within 50 'more than', 'less than' Using the numbers trac	ising the inequa nd 'equal to' alc to compare the	lity symbols. Childre ongside the correct s two numbers using	n should also use the ymbols to compare words and inequal	he language e numbers. lity symbols.	
•	two numbers within 50 'more than', 'less than' a Using the numbers trac	using the inequa nd 'equal to' alc to compare the 10 31 32 33 34 33 36 37 38	lity symbols. Childre ongside the correct s two numbers using	n should also use the ymbols to compare words and inequal	he language e numbers. lity symbols.	
•	two numbers within 50 'more than', 'less than' a Using the numbers trac 19 20 (2) 23 24 26 (2) 27 28 29 21 is than 26 26 is than 21	is more than is less than	lity symbols. Childre ongside the correct s e two numbers using	n should also use th ymbols to compare ; words and inequal	he language e numbers. lity symbols.	
•	two numbers within 50 'more than', 'less than' a Using the numbers trac 19 20 (2) 23 24 28 (6) 27 28 29 21 is than 26 26 is than 21 21 0 26 26 0 21	ising the inequal nd 'equal to' alc to compare the is more than is less than	lity symbols. Childre ongside the correct s e two numbers using	n should also use the ymbols to compare words and inequal	he language e numbers. lity symbols.	
•	two numbers within 50 'more than', 'less than' a Using the numbers trace $19 \ge 20 \ge 23 \ge 4 \ge 26 \ge 27 \ge 28 \ge 9$ 21 is than 26 26 is than 21 $21 \bigcirc 26 \ge 26 \bigcirc 21$ Use the 1-50 grid to con	ising the inequa nd 'equal to' alc to compare the (0) 31 32 33 34 (3) 36 37 38 is more than is less than pare the number	lity symbols. Childre ongside the correct s e two numbers using	n should also use th ymbols to compare words and inequal	he language numbers. lity symbols.	
•	two numbers within 50 'more than', 'less than' a Using the numbers trac '1920(2) 23 24 28 (2) 29 21 is than 26 26 is than 21 21 26 26 21 Use the 1-50 grid to con '12 21	ising the inequa nd 'equal to' alc to compare the sto compare than is more than is less than 1 2 3 4 5 6 7 8 1 12 13 14 15 15 12 19	lity symbols. Childre ongside the correct s e two numbers using	n should also use th ymbols to compare words and inequal	he language e numbers. lity symbols.	
•	two numbers within 50 'more than', 'less than' a Using the numbers trace '19 20 (2) 23 24 28 (6) 27 28 29 21 is than 26 26 is than 21 21 O 26 26 O 21 Use the 1-50 grid to con 12 O 21 38 O nineteen	12 3 4 5 6 7 8 1 12 34 5 6 7 8 1 12 34 4 5 6 7 8 1 12 34 4 5 6 7 8 1 12 34 4 5 6 7 8 1 12 13 14 15 16 17 18 21 22 23 24 25 26 27 28	lity symbols. Childre ongside the correct s e two numbers using ers 9 10 19 20 29 30	n should also use th ymbols to compare words and inequal	he language e numbers. lity symbols.	
•	two numbers within 50 'more than', 'less than' a Using the numbers trace 19 20 (2) 28 (2) 28 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Ising the inequal nd 'equal to' alc to compare the s is more than is less than 1 2 3 4 5 6 7 8 1 12 13 14 15 16 17 18 2 2 23 24 25 26 27 28 31 32 33 34 35 36 37 38 41 42 43 44 45 46 47 48	lity symbols. Childre ongside the correct s e two numbers using ers 9 10 19 20 29 30 39 40 49 50	n should also use th ymbols to compare words and inequal	he language e numbers. lity symbols.	
•	two numbers within 50 'more than', 'less than' is Using the numbers trace $10 \ 20 \ 21 \ 24 \ 26 \ 27 \ 28 \ 29$ 21 is than 26 26 is than 21 21 _26 _26 _21 Use the 1-50 grid to com 12 _21 38 \ nineteen 40 _39 + 1 Use a number line to 1-5	sing the inequa nd 'equal to' ald to compare the s to compare the is more than is less than 1 12 13 14 15 16 17 18 21 22 23 24 25 26 27 28 31 32 33 34 35 36 37 38 41 42 43 44 45 46 47 48 0 grid to compa	lity symbols. Childre ongside the correct s e two numbers using ers 9 10 19 20 29 30 39 40 49 50 re:	n should also use th ymbols to compare words and inequal	he language e numbers. lity symbols.	
•	two numbers within 50 'more than', 'less than' a Using the numbers trace 1920(2)282428(2)272929 21 is than 26 26 is than 21 $21 \bigcirc 26 26 \bigcirc 21$ Use the 1-50 grid to condition $12 \bigcirc 21$ $38 \bigcirc$ nineteen $40 \bigcirc 39 + 1$ Use a number line to 1-50 fifteen \bigcirc 50	A sing the inequal to' alcosed and 'equal to'	lity symbols. Childre ongside the correct s e two numbers using ers 9 10 19 20 29 30 39 40 49 50 re:	n should also use th ymbols to compare words and inequal	he language e numbers. lity symbols.	
•	two numbers within 50 'more than', 'less than' is Using the numbers trace 1920(2) 23 24 28 (2) 27 28 29 21 is than 26 26 is than 21 $21 \bigcirc 26 26 \bigcirc 21$ Use the 1-50 grid to condition $12 \bigcirc 21$ $38 \bigcirc$ nineteen $40 \bigcirc 39 + 1$ Use a number line to 1-50 fifteen \bigcirc 50 $28 \bigcirc 29$	The inequal to a local state of the inequa to a local state of the inequal to a local state o	lity symbols. Childre ongside the correct s e two numbers using ers 9 10 19 20 29 30 39 40 49 50 re:	n should also use th ymbols to compare words and inequal	he language e numbers. lity symbols.	
• • Order nu	two numbers within 50 'more than', 'less than' a Using the numbers trace 10 20 (2) 23 24 28 (2) 27 28 29 21 is than 26 26 is than 21 $21 \bigcirc 26 \ 26 \bigcirc 21$ Use the 1-50 grid to condition $12 \bigcirc 21$ $38 \bigcirc$ nineteen $40 \bigcirc 39 + 1$ Use a number line to 1-50 $28 \bigcirc 29$ umbers within 50	The sing the inequal to a local and 'equal to' alocal and 'equal	lity symbols. Childre ongside the correct s e two numbers using ers 9 10 19 20 29 30 39 40 49 50 re:	n should also use th ymbols to compare words and inequal	he language e numbers. lity symbols.	
• • Order nu	two numbers within 50 'more than', 'less than' is Using the numbers trace 192(2)23 24 28 (2)27 28 29 21 is than 26 26 is than 21 $21 \bigcirc 26 26 \bigcirc 21$ Use the 1-50 grid to condition $12 \bigcirc 21$ $38 \bigcirc$ nineteen $40 \bigcirc 39 + 1$ Use a number line to 1-50 $28 \bigcirc 29$ umbers within 50 Children continue to order	A compare the inequal to' alco to compare the is more than is less than is less than is less than in 1 2 2 2 2 4 25 26 27 28 20 2	lity symbols. Childre ongside the correct s e two numbers using ers 9 10 19 20 29 30 39 40 49 50 re: g the language 'larg	n should also use th ymbols to compare ; words and inequal standard inequal	he language e numbers. lity symbols. re than', 'less	

	numbers in ascending and descending order. Children should be able to justify the order of
	numbers suing the knowledge of place value. They should know to compare the highest place
	value column firs (tansit and then move anto the next column (ands)
	value column ins (tens)t and then move onto the next column (ones).
	Order the groups of cubes from smallest to largest.
	Order the base 10, build and order from largest to smallest:
	22 40 10
	25, 49, 19
	11, 33, 22
	41, 14, 42, 24
	• Use the four numbers to complete the statement (you may want to start with two numbers
	Ose the four numbers to complete the statement (you may want to start with two numbers
	first and then build up to 4)
	31 32 33 34 39 39 34 39 39 40
	Children build on their previous knowledge of counting in multiples of 2 and go beyond 20 up
	to 50. They will apply previous learning of one more and ones less to count forwards and
	backwards in twos For example, two more than two and two less than. The 1-50 grid can be
	backwards in twos. For example, two more than two and two less than. The 1-50 grid can be
	used to spot and discuss patterns that emerge when counting in 2s.
	How many socks are there? How many gloves are there?
	BIBBIBBIBBIBBI
	How many gloves are there?
	<u>AAAAAAAAAAAAAAAAA</u>
	There aregloves in total.
	Represent the gloves using ten frames.
	• Continue colouring in 2s on the grid. What do you notice?
	• Continue colouring in 25 of the grid. What do you notice:
	1 2 3 4 5 6 7 8 9 10 11 7 7 5 14 5 6 7 8 9 10
	1 2 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1
	31 32 33 34 35 36 37 38 39 40
	Complete the number line by counting in 2s.



		 Use a hundred square to: Count forwards from 80 to 92 Count backwards from 73 to 65 Write down the numbers between 75 and 81 Find what number comes between 46 and 48 	
Milestone 2	To count in steps of 2,	Education City to revise counting in steps of 2, 3, 5 and 10.	
	then from any given	 Number lines/tracks to snow the jumps. Draw number tracks on the playground for children to jump along in steps of 2, 3, 5 and 10 	
	number.	saying the numbers. Varying the starting point.	
		Assign numbers to children and they stand in order going up in different steps.	
		 Use numicon Snapes to build up steps of 2, 3, 5 and 10 from different numbers. Use computer games such as Percy Keeps Counting and Percy Teaches Maths as well as Purple 	
		Mash.	
		Count in 2s, 5s and 10s	
		Children should count forwards and backwards in 2s, 5s and 10s. Children should not always	
		start from 0 and should start on a multiple of 2 or 5 when counting in 2s and 5s but can start from any number when counting in 10s. For example, when counting in 2s they should not	
		start at 3. Encourage children to look for patterns as they count.	
		Continue each number sequence	
		Circle the odd one out in each number sequence 2 4 6 8 9 10 12	
		0, 5, 10, 20, 30, 40	
		35, 30, 25, 20, 12, 10	
		Count forwards and backwards in jumps of 10 from inty-seven	
		Count in 3s	



		Match the numerals to the words
		17 48 38 70 thirty-eight seventy forty-eight seventeen
Milestone 3	To count from 0 in multiples of 4, 8, 50 and 100.	Education City to revise counting in steps of 4, 8, 50 and 100
		Number lines/tracks to show the jumps.
		 Assign numbers to children and they stand in order going up in different steps.
		Use computer games such as Percy Keeps Counting and Percy Teaches Maths as well as Purple
		Mash.
		 Count in 50s and 100s Children use their knowledge of the patterns in the 5 times table to count in steps of 50 and 10 times table for 100. They should start from any given multiple of 50 and 100 and be able to count both forwards and backwards. Look at the number patterns. What do you notice? 5 10 15 20 25 30 50 100 150 200 250 300 Complete the number tracks 50 150 200 350 450 Circle and explain the mistake in each sequence: 50, 100, 105, 200, 250, 300 Circle and explain the mistake in each sequence: 50, 100, 105, 200, 250, 300 Activities can be repeated for counting forward and backward in 100s

Mathematics - Number: Number





Mathematics – Number: Number

 Dexter is counting bac negative three". Wh Spot the mistake in th a) 2,0,0,-2,-4 	kwards out loud. He says, "tow, one, negative one, negative two, at mistake has Dexter made? ese number sequence.	
 b) 1, -2, -4, -6, -8 c) 5, 0, -5, -10, -20 		