



EYFS Reception Maths Long Term Plan Autumn Term

Consolidating key skills: Subitising, counting, composition, sorting and matching, comparing and ordering

Week	White Rose Block	Number Focus	Shape, Space & Measure	Numberblocks Links	Key Texts	Daily focus/ Enhancements Ideas
1	Getting to Know You	TEACHER ASSESSMENT NER BASELINE The assessment consists of mathematics tasks, early number, early calculation (early addition/subtraction), mathematical language, early understanding of pattern BASELINE/ROUTINE/NUMBERS ALL AROUND US Getting to know you – Opportunities for settling in, introducing areas of provision and getting to know the children. Key times of the days, class routines, exploring the provision in and outside, where do things belong? Positional language				
2	Getting to Know You					
3	Getting to Know You	Match	Same/different		The Button Box Margarette S Reid	Match buttons Match socks Matching buttons with outlines

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4	Phase 1 Just Like Me	Match – by attribute Colour, size, shape etc Same/different	Match shapes		Monkey puzzle- Julia Donaldson	<p>Matching picture cards Number shapes or pattern block base boards Matching collection of painted pebbles or wooden discs – whose partner is missing? Matching compare bears- pairs Matching number shapes – pairs game Build towers that match – height Match Numicon shapes</p>
5	Phase 1 Just Like Me	Sort – by attribute Colour, size, shape, material, texture etc Same/different	Sorting shapes – making sets	<p>Sorting into groups Numberblocks S1 ep 10 Numberblocks S1 – How to count</p>	The Button box Margarette S Reid	<p>Which one doesn't belong: https://wodb.ca/</p> <p>Sorting buttons Sorting natural objects Sorts compare bears Shells, pebbles Sort 3D shapes or wooden blocks (is seasonal) Autumnal seeds and leaves sorting using 1 criteria to create 2 sets – progress to more sets Labelling sets to introduce mathematical language – long bricks, short bricks etc Digging deeper – Guess my rule, odd one out</p>

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6	Phase 1 Just Like Me	Compare size, mass and capacity	Comparing objects according to size - Large/small, big/little, short/tall, tall/tallest		A squash and a squeeze – Julia Donaldson	<p>Comparing size – little, small, big, large Compare quantities – more/fewer, Sorting objects into sets – which has fewer? Which are equal using 5 frames to use 1-1 correspondence</p> <p>Compare amounts – sharing dough equally, how many objects do you have? – compare counting on 5 frames</p> <p>Squash and a squeeze -full, empty Using a hoop to represent the house – how does the house feel as the story progresses?</p> <p>Comparing height – taller, shorter, tallest, shortest Compare length – longer, shorter Compare size – recap all vocabulary</p> <p>Digging deeper – compare mass using scales, baking cakes and measure ingredients, feely bag and numicon shapes</p>
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7	Phase 1 Just Like Me	Exploring Pattern – continue and create simple repeating patterns Say the pattern aloud AB patterns including shapes, colour, size, actions, sounds	Make simple patterns	Making simple patterns Exploring more complex patterns SERIES 3 EP 8 17	We're Going on a Bear hunt – In and out the dusty bluebells circle game, Tongue twisters – red lorry, yellow lorry Clap your hands and wiggle your fingers song Go noodle – banana, banana, meatballs	Ab action patterns knees, clap, knees, clap Heads, shoulders, heads, shoulders Hands up, hands down, hands up hands down Word pattern opposites – up, down AB pattern - Create simple patterns- red brick, green brick Repeating pattern with numicon shapes, natural materials, build towers Digging deeper – spot my mistake, bear hunt, What's my pattern?
8	Phase 2 It's me 1,2,3	Introduce 0,1,2,3 Representing 1,2,3	1,2,3 on the clock 1p 2p	Numberblocks s1 Ep 1 Nurnberblocks- S3 Episode 5 (Zero) Nurnberblocks- S1 Episodes 2 (Another One) Nurnberblocks- S1 Episodes 3 (Two) Nurnberblocks- S1 Episodes 4 (Three) Nurnberblocks- S1 Episodes 5 (One,	I 'm number one – Michael Rosen One bear at bedtime – Mick Inkpen Each, Peach, pear, plum Goldilocks and the 3 bears, The3 Billy Goats Gruff Hickory Dickory dock	Representing 1,2,3 Dot cards in different arrangements and match to numeral Make collections of 1,2,3 Number hunt count, subitise Count sounds, movements Beanbag game - Use mark making to represent 1,2,3 to record score during a game Loose parts – labelled 1,2,3 fill the pots Outside – selection of equipment (hoops, quoits, sponges, buckets) devise own game using clipboards to record scores.

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				Two, Three) Nurnberblocks- SI Episode 6 (Four) Nurnberblocks-SI Episode 8(Three Little Pigs)		Representing 1,2,3 and Sorting 1,2,3 into groups Representing 1,2,3 Sorting/matching 1,2,3
9	Phase 2 It's me 1,2,3	Composition of 1,2,3 One more/less pattern Composition of 1,2,3 Counting – each number is one more than the number before. Counting back – each number is one less than the previous number	1,2,3 on the clock 1p 2p		1,2,3 at the Zoo – Eric Carle 3 little pigs 3 bears When Goldilocks went to the house of the bears song	Using stories and songs which count on/back to introduce 1 more/less pattern Representing pattern using bricks or cubes towers to order Sorting 1,2,3 and Comparing sets using real objects – who has more? Sorting 1,2,3 and matching 1,2,3 – dot plates plate with more dots, fewer dots, same number of dots, what would come next? Outside – compare how far they can travel – in 3 giant steps, 3 small steps, on tiptoes etc Loose parts – make 1 more/less pattern – extend beyond three

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						<p>Track games – roll dice and fill the track. Compare who has most counters?</p> <p>Role play – 3 bears set the table for breakfast</p> <p>Picture cards of representations of 1,2,3 play game who has most cards.</p>
10	Phase 2 It's me 1,2,3	<p>Consolidate 1,2,3</p> <p>Composition of 1,2,3 compare and represent – explore and notice that e.g., 3 can be composed of 1,1,1 or 2,1 or 1, 2</p> <p>Can explore large numbers in their play!</p>			3 Billy Goats Gruff	<p>Animals in the field – how many in each field?</p> <p>Numicon – use the number shapes to make the numbers – check by sitting on top of whole number.</p> <p>Play bunny ears – 2 hands for the ears – how many ways to show 1,2,3</p> <p>3 Billy Goats game – bridge and field – move all 3 over the bridge</p> <p>Dominoes – find all the dominoes with 1,2,3 spots</p>

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						<p>Outside – using 3 quoits take turns throwing How many land in/outside the circle? Record scores</p> <p>Digging deeper – how many inside? hidden objects</p>
11	Phase 2 It's me 1,2,3		Geometry and spatial thinking – circles and triangles Positional language		<p>Circle/triangle – Mac Barnett and Jon Klassen</p> <p>Mr Men stories – Mr Rush, Mr Happy</p> <p>Rosie's walk - Pat Hutchins</p> <p>We're going on a bear hunt – Michael Rosen</p> <p>Each, peach, pear plum – Janet and Allan Ahlberg</p>	<p>Triangle/ circle sorting and properties – Mr Rush, Mr happy Mr men stories Kandinsky – circle and triangle pictures Going on a shape hunt Shape pictures Printing with shapes and describe patterns Transient art using circles and triangles Dough – use cups, lids, beads, to press into dough – make repeating patterns Outside – use sticks, ropes planks to create triangles and circles</p> <p>Spatial awareness - Positional Language – Where's the monkey PPT Positional Language – Rosie's walk Use positional language for a purpose – e.g., sit the teddy next to the books</p>

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						<p>Large scale representations of places and journeys</p> <p>Small world – placing items using positional language</p> <p>Outdoors – set up bear hunt by hiding bears, obstacle course – using positional language</p> <p>Digging deeper – treasure hunt, make my match</p>
12	Phase 3 Light & Dark	<p>Introduce 4 and 5 Representing numbers to 5</p> <p>Count, subitise, make sets of 4/5 Match number names to quantities, more/fewer in sets and mark making to represent numbers to 5</p>	Squares, rectangles Pentagons	Numberblocks 4 and 5 S1	<p>Pete the Cat and his 4 groovy buttons – Eric Litwin</p> <p>Kipper’s Birthday – Mick Inkpen</p> <p>Bear in a square – Della Blackstone</p> <p>5 little speckled frogs 5 little men in a flying saucer 5 currant buns 5 little monkeys</p> <p>Mrs Wishy Washy song</p>	<p>Number 4 - Pete the cat and his 4 groovy buttons – 5 frames</p> <p>Number 5 - Kipper’s birthday- 5 frame</p> <p>Counting to 4/5, 5 frame/sorting 4/5</p> <p>Representing 4 and composition of 4</p> <p>Representing and composition of 5 – 5 little speckled frogs</p> <p>Counting 4/5 objects – making different patterns (subitise)</p> <p>Arranging items of a 5 frame</p> <p>Counting around the circle – 1,2,3,4,5</p> <p>Washing line – hanging clothes and counting them back into the basket</p> <p>Sort animals</p>

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						<p>Outdoors - Parking bays – with vehicles counting and matching to correct bay. Number hunts hide numerals or objects with numerals – find and sort in to 1,2,3,4,5 – count quantities and match to numeral</p> <p>Kippers’ birthday – How old is Kipper? Count candles on cakes? Stand up if 4/5 Who is 5 next?</p> <p>Feely bag and cubes – predict how many count out handfuls in 5 frames</p> <p>Outdoors – run or swat game Birthday cards – assortment of ages – sort, order, compare, make cards in mark making</p> <p>Tray of objects with pots 1-5 count the correct number into the pots</p> <p>Rhyme table – characters, numbers, songs, books Digging deeper – build and count</p>
13	Phase 3	1 more/less			The gingerbread man	Sing songs - 1 Elephant came out to lay – song – 1more/counting to 5

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	Light & Dark	Count, subitise and compare to explore using more and less	Addition/ Subtraction symbol Pennies – money	Numberblocks One more/less S1 Ep 13	<p>1 Elephant came to play 5 green bottles 5 currant buns 5 little ducks 5 little monkeys 5 speckled frogs</p>	<p>5 Green bottles – song 1 less than 1 less – 5 currant buns - How many altogether? Pennies in a pot – how many? 1 less bun each time</p> <p>Gingerbread man – as you read, represent the growing number of characters using counters, cubes. Can children see pattern? Predict what is next.</p> <p>Use 5 frames – make a number can you show me one more/less Point to number made. Point to 1more/less on number line.</p> <p>Outside – create a bus route when bus stops, one more child gets on bus. Extend to one less – people getting off bus.</p> <p>Numerals, objects and picture cards to compare. Using number of the day ask children to find 1 more/less using different representations Loose parts – one more staircase pattern match to number track</p> <p>Digging deeper – Washing line, Hidden objects</p>

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14	Phase 3 Light & Dark	Comparing shapes – shapes with 4 sides	Night & Day/Time Measurement		<p>Mr Strong – Roger Hargreaves</p> <p>Number blocks S1 EP 6 – four</p> <p>Peace at last – Jill Murphy</p> <p>Fox in the dark – Alison Green</p> <p>Day monkey, night monkey – Julia Donaldson 5 green bottles 5 currant buns 5 little ducks 5 little monkeys 5 speckled frogs</p> <p>Days of the week song</p>	<p>Square and rectangle properties – 4 straight sides and 4 corners. Recognise shapes in classroom and build own squares and rectangles. Show variety of sizes, orientations – what’s the same/different?</p> <p>Counting squares in building/scenes – how many. Make own pictures using squares and rectangles.</p> <p>Loose parts – Lego add square/rectangular windows. Square and rectangular frames – make pictures using loose parts Art – print with wooden blocks, make repeating patterns</p> <p>Outdoors – shape hunt Digging deeper – combining shapes, matchstick shapes</p> <p>Night and Day – use language to describe events day, night, morning, afternoon, before, after, today, tomorrow</p> <p>Measure time indifferent ways – living calendar, date, number of sleeps to an event. Visual timetable of events – order evets of the day</p>

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						<p>Days of the week song Use class calendar for important events and duration e.g., how many sleeps Use stories for nocturnal animals – animals wake up at night.</p> <p>Order pictures according to time of the day</p> <p>Outdoors – day or night-time corners</p> <p>Digging deeper – Obstacle course, goal, NOTE: In mathematics, squares are classed as special rectangles with 4 equal sides.</p>
15	N/A	Winter activity week	<p>Composition of 5 Sorting and matching Sorting into categories Positional language Time (Consolidation)</p>		<p>Winter Christmas stories Frozen – Disney film</p>	<p>Do you want to build a snowman? – numbers 1-5 – Snowmen – Where can you see 1-5 – snowmen buttons – composition of 5</p> <p>Snowflakes, snowflakes all around – matching 1-5 Subitise snowflakes and matching pairs 1-5 Wrap up warm – sorting into categories Sorting winter/summer /seasonal clothes</p>
Vocabulary		<p>Number: Zero, number, one, two, three ... to twenty and beyond, teens numbers, eleven, twelve ... twenty, none, how many ...?, count, count (up) to, count on (from, to), count back (from, to), count in ones, twos, fives, tens, is the same as, more, less, odd, even, few, pattern, pair</p> <p>Place value: Ones, tens, digit, the same number as, as many as, more, larger, bigger, greater, fewer, smaller, less, fewest, smallest, least, most, biggest, largest, greatest, one more, ten more, one less, ten less, compare, order, size, first, second, third... twentieth, last, last but one, before, after, next, between</p>				

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<h2>Vocabulary</h2>	<p><u>Estimating</u>: Guess, how many ...?, estimate, nearly, close to, about the same as, just over, just under, too many, too few enough, not enough</p> <p><u>Addition and subtraction</u>: add, more, and, make, sum, total, altogether, double, one more, two more ... ten more, how many more to make ...?, how many more is ... than ...?, how much more is ...?, take away, how many are left/left over?, how many have gone?, one less, two less, ten less ... , how many fewer is ... than ...?, how much less is ...?, difference between</p> <p><u>Multiplication and division</u>: Sharing, doubling, halving, number patterns Fractions: parts of a whole, half, quarter</p> <p><u>MEASUREMENT</u>: measure, size, compare, guess, estimate, enough, not enough, too much, too little, too many, too few, nearly, close to, about the same as, just over, just under Length: metre, length, height, width, depth, long, short, tall, high, low, wide, narrow, thick, thin, longer, shorter, taller, higher ... and so on, longest, shortest, tallest, highest ... and so on, far, near, close</p> <p><u>Weight</u>: weigh, weighs, balances, heavy, light, heavier than, lighter than, heaviest, lightest, scales Capacity and Volume: full, empty, half full, holds, container Time: time, days of the week, Monday, Tuesday ..., day, week, birthday, holiday, morning, afternoon, evening, night, bedtime, dinner time, playtime, today, yesterday, tomorrow, before, after, next, last, now, soon, early, late, quick, quicker, quickest, quickly, slow, slower, slowest, slowly, old, older, oldest, new, newer, newest, takes longer, takes less time, hour, o'clock, clock, watch, hands Money: money, coin, penny, pence, pound, price, cost, buy, sell, spend, spent, pay</p> <p><u>GEOMETRY</u>: Properties of shape: shape, pattern, flat, curved, straight, round, hollow, solid Sort, make, build, draw, size bigger, larger, smaller, symmetrical, pattern, repeating pattern, match 2-D shape: corner, side, rectangle (including square), circle, triangle 3-D shape: face, edge, vertex, vertices, cube, pyramid, sphere, cone Position: over, under, above, below, top, bottom, side, on, in, outside, inside, around, in front, behind, front, back, beside, next to, opposite, apart, between, middle, edge, corner,</p> <p><u>Direction</u>, left, right, up, down, forwards, backwards, sideways across, next to, close, near, far, along, through, to, from, towards, away from, movement, slide, roll, turn, stretch, bend, whole turn, half turn</p> <p><u>STATISTICS</u>: count, sort, group, set, list</p> <p><u>GENERAL</u>: pattern, puzzle, what could we try next?, how did you work it out?, recognise, describe, draw, compare, sort</p>
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