

Early Years Medium Term Maths Planning

Autumn term

Weeks	Objectives	Session Inputs	Continuous Provision Ideas
1	'The oneness of one'	<ul style="list-style-type: none"> • Watch numberblocks one • Formation of number one • What is one? what is not one? • Finding one – numicon piece, cuisenaire, 1 pencil etc – how many ways can we show one? 	Range of multi-sensory activities involving formation of number. Mud kitchen – 1 scoop of sand, 1 scoop of mud etc
2	'the twoness of two'	<ul style="list-style-type: none"> • Watch numberblocks two and formation • Matching socks into pairs – a pair is two • What is two and what is not two? One and one more is two • How many ways can we make two? (numicon piece 2 including a 1 piece and a 1 piece is the same as 2, cuisenaire etc and 2 pencils etc) 	Range of multi-sensory activities involving formation of number. Noah's Ark Snap games Pairing/matching involving shoes/wellies/gloves/socks) Mud kitchen – 1 scoop and 2 scoops Song – 'Two little dickie birds'
3	'the Threeness of three'	<ul style="list-style-type: none"> • Watch numberblocks three and formation • How many ways can we make three? (numicon and cuisenaire and objects) • Combinations of three using ladybirds or dominoes – is it 3? Is it not 3? • Three is a pair and one more 	Range of multi-sensory activities involving formation of number. Song ' My hat it has 3 corners' Activities with triangles – a shape with 3 corners Range of counting activities
4	'the fourness of four'	<ul style="list-style-type: none"> • Watch numberblocks four and formation 	Range of multi-sensory activities involving formation of number.

		<ul style="list-style-type: none"> • How many ways can we make four? (numicon and cuisenaire and objects – ensuring the children know that a 3 piece and 1 piece also same as the four etc) • Combinations with ladybirds / dominoes – is it 4? Is it not 4? What is it? • Four is two pairs, 2 and 2 more or 3 and 1 more 	<p>Range of counting and subitising activities</p> <p>Activities involving squares – a shape with 4 corners</p>
5	' the fiveness of five'	<ul style="list-style-type: none"> • Watch numberblocks five and formation • How many ways can we make five? (numicon and cuisenaire and objects) • Combinations of five using ladybirds or dominoes – is it 5? Is it not 5? Or using fingers up and fingers down • Five is two pairs and one more 	<p>Range of multi-sensory activities involving formation of number.</p> <p>Counting activities and subitising activities</p> <p>Hand prints / foot prints (toes)</p>
6	To sort a set of objects by colour or size	<ul style="list-style-type: none"> • Sort a set of bears into 2 sets (2 colours only) – ask the children. Then use a set with more than two colours and sort into 2 sets (e.g Red and not Red) • Sort a set of objects containing many colours into 2 groups – (blue and not blue etc) • Use compare bears and sort into three groups – if they are insistent on only sorting by colour restrict to one colour to end up with 3 sizes • Children decide on sorts into two groups i.e Big and not big 	<p>Link to Elmer text.</p> <p>Various sorting activities indoors and out.</p>
7	'The sixness of six ' (3 pairs)	<ul style="list-style-type: none"> • Watch number blocks six and practice formations • What is six? – what is not six? Recognition of group size • Finding six – show numicon piece and cuisenaire piece – how many other sixes can we find/make? 	<p>Range of multi-sensory activities involving formation of number.</p> <p>Insect activities</p>

		<ul style="list-style-type: none"> • Ways to make six – ladybird spots, dominoes etc 	
8	To introduce the shapes – circle, square and triangle and explore	<ul style="list-style-type: none"> • Sort shapes – by colour, by size, by shape (it is not important to remember properties of them just talk about what they see) • Shape hunt around school – use own shapes to check • Making shapes using band board, string, straws – am I correct, is this a triangle? How do I know? 	<p>Making shapes from straws, string, construction, playdoh, elastic band boards.</p> <p>Shape hunts</p> <p>Sorting shapes</p> <p>Printing shapes</p>
9	To know one more	<ul style="list-style-type: none"> • Bus game – how many on the bus? One more gets on – how many now? • Beadstring/ rekenrek to show one more • Show a group of objects – find one more • Make a staircase with multilink – how many? Then add one more step 	<p>Buses</p> <p>Making staircase from multi-link</p> <p>Making sets – adding spots to ladybirds.</p>
10	To know one less	<ul style="list-style-type: none"> • Bus game – how many on the bus? One gets off – how many now? • Songs – five little speckled frogs • Song five little ducks • Show a group of objects, how many? Take one away – find one less 	<p>Number songs resources – frogs, ducks, green bottles.</p> <p>Link to Billy Goats crossing bridge</p>
11	To identify and use vocabulary of more or less to compare two sets	<ul style="list-style-type: none"> • Lots of practical comparisons of sets – which has more? Which has less? How do we know? 	<p>Counting sets and matching to numbers</p> <p>Sets comparisons</p>
12	To explore heavier and lighter	<ul style="list-style-type: none"> • In hand pick up a stone/ rock – in other hand pick up a feather – which is light? Which is heavy? • Use bucket scales put one item in each side – which is heavy? Which is light? • Continue to practise using hand to decide heavy and light 	<p>Lots of opportunities to pick up objects in hands and use bucket balance scales.</p>

		<ul style="list-style-type: none"> • Continue to practice using balance to show heavy and light 	
13	Maths from stories – revision week	<ul style="list-style-type: none"> • Read book – Washing line • Read Book – Pete the cat and his four groovy buttons • Read Book – Five little men in a flying saucer • Read book – Six Dinner Sid 	Resources for counting – making sets and songs and to follow up on texts.
14	To explore repeating patterns (2 variables, maximum 3)	<ul style="list-style-type: none"> • Using paint sponges print a repeating two colour/shape pattern in front of children – what do they notice? – what comes next? • I’ve made a pattern – (leave gaps – what goes in the gap?) • I’ve made a pattern – is it correct? where has it gone wrong? • Make a pattern using 3 colours/shapes – what do they notice 	Printing Shape patterns Tie in with Elf workshop wrapping paper Beads stickers

Ongoing
Number songs, counting forwards and back, subitising, counting sets, knowing different colours, knowing different sizes (big, medium, small) recognising and sorting simple 2 d shapes

Early Years Medium Term Maths Planning

Spring term

Weeks	Objectives	Session Inputs	Continuous Provision Ideas
1	To understand zero represents nothing	<ul style="list-style-type: none"> • Numberblocks zero • Zero storybook • Use a big picture – how many birds? Cars? Etc – include zero • Formation of zero 	Range of multi-sensory activities involving formation of number.
2	'The sevenness of seven	<ul style="list-style-type: none"> • Watch number blocks seven and practice formations • What is seven? – what is not seven? Recognition of group size • Finding seven – show numicon piece and cuisenaire piece – how many other sevens can we find/make? • Ways to make seven – ladybird spots, dominoes etc 	Colours in the rainbow, days of the week
3	'the eightness of eight'	<ul style="list-style-type: none"> • Watch number blocks eight and practice formations • What is eight? – what is not eight? Recognition of group size • Finding eight – show numicon piece and cuisenaire piece – how many other eights can we find/make? • Ways to make eight – ladybird spots, dominoes etc 	Spiders, octopus Counting activities linked to class text The Hungry Caterpillar

4	'the nineness of nine'	<ul style="list-style-type: none"> • Watch number blocks nine and practice formations • What is nine? – what is not nine? Recognition of group size • Finding nine – show numicon piece and cuisenaire piece – how many other nine can we find/make? • Ways to make nine – ladybird spots, dominoes etc 	<p>Dr Knickerbocker song Counting activities linked to class text Oliver's Vegetables</p>
5	'the tenness of ten'	<ul style="list-style-type: none"> • Watch number blocks ten and practice formations • What is ten? – what is not ten? Recognition of group size • Finding ten – show numicon piece and cuisenaire piece – how many other tens can we find/make? • Ways to make ten – ladybird spots, dominoes etc 	<p>10 green bottles, ten in a bed, 10 fingers and 10 toes activities</p>
6	<p>Explore height</p> <p>Vocab: taller, shorter, taller than and shorter than</p>	<ul style="list-style-type: none"> • Make two towers – which is taller, which is shorter? • Show two plants- which is shorter which is taller? • Taller/ shorter game on computer • Taller/ shorter story book 	<p>Comparing activities linked to class text – This is the House that Jack Built – heights of houses Plant heights Heights of children</p>
7	<p>Explore length</p> <p>Vocab: longer, shorter, longer than, shorter than</p>	<ul style="list-style-type: none"> • Show two snakes – what can you tell me? Which is shorter which is longer? • Tray of items - ask child to choose two – which is longer? Which is shorter? 	<p>Make a footprint each (cut and laminate) – find things longer and shorter than your foot</p> <p>Crocodile rulers Threading beads Making paper chains</p>

		<ul style="list-style-type: none"> • Look at Cuisenaire rods – which is longer? • Coloured strips of paper to make paper chains – who can make the longest? 	
8	Combining two groups	<ul style="list-style-type: none"> • Look at one set of objects (dots) and another set of objects and combine – how many altogether • Combining sets using part /part /whole model 	Use ideas from Whiterose Link to class text Granny went to Market – how many items has she now/
9			
10	To name 2d shapes and talk about corners and sides	<ul style="list-style-type: none"> • Sorting shapes that are the same • Sorting shapes including those in different sizes and orientations • Show shape pictures – how many triangles etc? • Feely bag shape game 	Kandinsky art work Shape pictures using cut out shapes Shape printing
11	Exploring properties of 3d shapes	<ul style="list-style-type: none"> • Input on shapes that stack • Input on shapes that roll • Sorting shapes according to what they notice • Finding 3d shapes in the environment 	Making castles/ rockets with blocks – which ones can you build on top of? Rolling objects down ramps Junk modelling Link to class text Handa’s Surprise – which fruits roll and why?
12	Problem solving	<ul style="list-style-type: none"> • Easter related maths problems 	

Ongoing
<p>Songs – days of the week, 5 little monkeys, 10 in a bed, 10 green bottles, Alice the Camel.</p> <p>Count forwards and backwards to ten from zero. To form numbers 1-6</p> <p>To hold up 1-6 numerals when asked. To make 1-1 counting correspondences to 6</p>

Early Years Medium Term Maths Planning

Summer term

Weeks	Objectives	Session Inputs	Continuous Provision Ideas
1	Making numbers that go beyond 10	<ul style="list-style-type: none"> • Watch number blocks • Show numbers beyond ten using full tens frame plus some filled in on next tens frame, bundles of ten straws plus ones, numicon tens and pegs plus more pegs & show place value cards to represent 	See Whiterose activities
2			
3			
4	Problem solving with legs	<ul style="list-style-type: none"> • Book – One is a snail, ten is a crab • Combining legs to make totals – a man and a snail is equal to three etc • How many different ways can I make 10? 	
5	Exploring capacities	<ul style="list-style-type: none"> • A range of practical activities that involve full and empty, half full including more water and less water 	Water tray activities
6	Events in time Vocab – now, before, after, later, soon, then, next, yesterday, today, tomorrow	<ul style="list-style-type: none"> • Read Jasper’s Beanstalk • Read Mr Wolf’s Week • Talk about the events in the day and order pictures 	Planting activities
7	Adding more and taking away	<ul style="list-style-type: none"> • Range of practical inputs involving adding and taking away – include maths stories to illustrate e.g I had four carrots and a rabbit ate two of them... 	Ideas from Whiterose including maths stories ‘ I had two dinosaurs etc’
8			
9			

10	Doubling numbers up to 6 +6	<ul style="list-style-type: none"> • Use dice and roll to find doubles – what is double 3? Etc • Use dominoes – overturn to find doubles – what is double 4? • Use ladybirds and identify doubles 	Butterfly folded paint prints
11	Sharing and grouping	<ul style="list-style-type: none"> • Practical activities involving sharing and grouping between 2 and 3 – ensure there are number stories to say what has happened e.g I had a bag of 6 sweets and there were 3 children – how can I find out how many they will get each? 	Range of sharing challenges
12	Counting in tens	<ul style="list-style-type: none"> • Use straw bundles of ten to reinforce counting in tens • Use numicon to reinforce counting in tens • Use cuisenaire rods to reinforce counting in tens • Use bead strings to 100 to reinforce counting in tens 	Hand and toes prints Numicon, straws, cuisenaire and bead string activities

Ongoing
Rote counting to twenty
Vocabulary – today, yesterday, tomorrow, more than, less than, taller, shorter, longer, heavier, lighter