

Wildground Federation YR Maths LTP

Composition – understanding that one number can be made up from two or more smaller numbers

Part-whole: identifying smaller numbers within a number	Children need opportunities to see small numbers within a larger collection. 'Number talks' allow children to discuss what they see. For instance, with giant ladybirds: 'There are 5 spots altogether. I can see 4 and 1, I can see 3 and 2, and I can see 1 and 1 and 1 and 1 and 1.' Encourage exploration of all the ways that 'five' can be and look. Children are encouraged to look closely at numbers to see what else they can see. This reinforces the concept of conservation.	<ul style="list-style-type: none">•encouraging making arrangements with (e.g.) ten; ensuring the children talk about the different arrangements they can see within the whole.
Inverse operations	Children need opportunities to partition a number of things into two groups, and to recognise that those groups can be recombined to make the same total. Encourage children to say the whole number that the 'parts' make altogether.	<ul style="list-style-type: none">•exploring songs; for example, 'Five Currant Buns' – show that the whole is still five, but some are in the shop and some have been taken away; check throughout that there are still five currant buns•playing skittles and looking at how many are standing. How many have fallen over? How many are there altogether?

<p>A number can be partitioned into different pairs of numbers</p>	<p>Children need opportunities to explore a range of ways to partition a whole number. The emphasis here is on identifying the pairs of numbers that make a total. Children can do this in two ways – physically separating a group, or constructing a group from two kinds of things</p>	<ul style="list-style-type: none"> • Numicon towers: layering up Numicon pieces of the same total • putting things into two containers in different ways • making a number with two different kinds of things. For example, make a fruit skewer with five pieces of fruit, using bowls of bananas/strawberries to choose from; then ask the children to describe how they have made theirs. They should compare it with a partner's: 'What is the same about your skewers? What is different?' • Bunny Ears: using your fingers like bunny ears. 'With two hands, show me five fingers. Can you do it in a different way?' Or, 'Show five fingers altogether with a friend.' • Spill the Beans: using double-sided counters or beans, where one side is coloured, throw the collection and note how many of each type can be seen and how many altogether. • using six bean bags with different fabric on each side, throw the collection and note how many of each type can be seen.
<p>A number can be partitioned into more than two numbers</p>	<p>Children need opportunities to explore the different ways that numbers can be partitioned, i.e. into more than two groups. Situations to promote this include increasing the number of pots to put a given amount into, e.g. planting ten seeds into three or more pots.</p>	<ul style="list-style-type: none"> • role play, e.g. in a toy shop, ten toys need arranging onto the three shelves. How will you organise them? • having more than two places to sort things into in any given context, e.g. arranging characters in small-world play in different locations

Number bonds: knowing which pairs make a given number	Children need opportunities to say how many are hidden in a known number of things. For example: 'Five toys go into a tent, then two come out. How many are left in the tent?' The child should respond that there are still three toys in the tent.	<ul style="list-style-type: none"> • playing hiding games with a number of objects in a box, under a cloth, in a tent, in a cave, etc. • utilising classroom routines such as tidy-up time to identify how many are still missing from a pot with a number label.
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What to look for... Can a child ...?	<ul style="list-style-type: none"> • subitise small groups within a larger number? • make a reasonable guess at a hidden number? • in context, state two groups that make a larger amount? For example, how might the (six) bean bags land? You could have three with stripes up and three with spots up.
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Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
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<ul style="list-style-type: none"> • Composition-focus on the composition of numbers to 3 before moving onto bigger numbers • Physically separating a group-partitioning groups up to 3 into different groups to recognise the groups can be combined to make 2 or 3. 	<ul style="list-style-type: none"> • Composition-focus on the composition of numbers to 5 before moving onto bigger numbers • Explore the different ways 5 can be made • Physically separating a group-partitioning groups of objects up to 5 into different groups to recognise the groups can be combined to make 2,3,4, or 5. • Recognise smaller numbers can be made within bigger numbers • Inverse operations children to understand that these groups can be recombined to make a given number i.e $1+2=3$ and $2+1=3$. 	<ul style="list-style-type: none"> • Partitioning numbers in a different way up to 7 recognising different groups can be combined make numbers up to 7. • Number bonds to 5 recall one number bond to 5 • Part, part whole model of numbers up to 5 using the language of one part is.. the other part is... the whole is... • 	<ul style="list-style-type: none"> • Partitioning numbers in a different way up to 7 recognising different groups can be combined make numbers up to 7. • Number bonds to 5- able to recite more than one number bond to 5 	<ul style="list-style-type: none"> • Partitioning numbers in two different ways-children to understand that numbers can be made in more than one way • Number bonds to 10- Begin to recall the different number bonds to 10 	<ul style="list-style-type: none"> • Number bonds to 10- able to recall number bonds to 10 • Part part whole model of numbers up to 10 • Children to explore the different ways numbers can be partitioned and this can be done using more than 2 groups i.e $1+1+1=3$ • Inverse operations to 10 children to understand that these groups can be recombined to make a given number
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Storybooks	Vocabulary	Songs & Rhymes
<ul style="list-style-type: none">❖ Cockatoos❖ Handa's Surprise	<ul style="list-style-type: none">❖ whole❖ altogether❖ add❖ equals❖ total❖ taking away❖ part	<ul style="list-style-type: none">❖ Five Currant Buns