ALP Trust Nursery Yearly Maths Overview

	Attributos							
	Notice when things have similar properties Use the language of classification, identifying what is the same/ different Group objects by similarities and differences Make connections between similarities and differences Select appropriate objects and materials that match the characteristics of the set, demonstrating that they can copy criteria modelled Articulate why something is or is not in a set, copying criteria that they have had modelled							
	Subitising	Cardinality, ordinality and counting	Composition	Comparison (inc Measures)	Pattern	Shape and Space		
Strand Term 1 Children will:	Recognise (perceptually subitise) groups of 2 familiar objects e.g. hands, feet, eyes, ears, arms, legs. Recognise up to 2 simple objects such as dots in familiar arrangements e.g. dice, linear patterns. These objects will be the same colour and size. Copy the number of objects e.g. match 2 pebbles to two dots on a dice, lidentify matching number of objects e.g. 2 dots and 2 bears Begin to notice 3 simple, familiar objects when arranged as a triangle of linear, diagonal pattern (dice)	Recite numbers in order when forward counting to 5 (this can be with the support of rhymes/ songs) Begin to relate the counting sequence to cardinality	Consistently recognise one object. Select one object from a larger group. Recognise that sets can be combined in different orders (but may not recognise that groups are additively composed of smaller groups). Know that a whole is bigger than parts (but may not accurately quantify with numbers).	Begin to compare collections and talk about which group has 'more' when the difference is obvious. Recognise and compare objects which are bigger/ smaller (not necessarily in the correct context e.g. related to height, length, capacity, as well as amount, etc) Use the language of comparison, identifying things that are the same and what is different Notice and describe similarities and differences, and make comparisons in the world around them	Make decisions about what criteria to use to complete and extend a set. Notice and join in and continue with auditory patterns. They can join in with chants such as left. right, left, right, colour chants. Begin to notice visual patterns of increasing complexity e.g. pointy, spotty, stripy, rough, smooth With auditory support they begin to describe patterns using simple adjectives Say what comes next in an AB pattern after three repetitions. Join in with simple refrains in stories such as and he huffed and he puffed	Select shapes which will fit when rotated or flipped insert boards, shape sorters, jigsaws (NCETM) Complete circuits, direct robots/ vehicles along a route (NCETM) Know shape names and properties of common 2D shapes: circle, triangle, rectangle, square (sides, corners, straight, round/curved)		
	Subitising	Cardinality, ordinality and counting	Composition	Comparison (inc Measures)	Pattern	Shape and Space		
Strand Term 2 Children will:	Perceptually subitise 3 then 4 simple, familiar objects when arranged as a triangle, rectangular, linear or diagonal pattern e.g. dice Begin to recognise (perceptually subitise) up to 4 objects in irregular arrangements also. Begin to notice smaller quantities within larger groups e.g. they notice 3 blue cars and 2 red cars, etc. Copy the number of objects e.g. match 4 pebbles to four dots on a dice/domino, Practise using their fingers to represent quantities which they can subitise Instantly recognise quantities up to 4 and confidently make a matching copy (this can also include arrangement of the objects).	Recite numbers in order when counting forward to 10. Count backward from 3. Relate the counting sequence to cardinality, Understand that the last number spoken gives the number in the entire set (up to 3 objects) Develop 1:1 correspondence of moveable and fixed items (up to 3 objects) when objects are similar and placed in a line	Know the 'twoness' of two. Know that 2 objects is made up of 2 individual objects (e.g. composed of two ones / one and one more) Know that 3 objects is made up of 3 individual objects (e.g. composed of three ones)	Compare collections and talk about which group has 'more' when the difference is obvious. Begin to explain how they know relating to cardinality and counting. Recognise differences of amounts (not significantly different) in the context of sharing e.g. 1 bear has 2 chairs, 1 has one chair and one has no chair or one child has 2 snacks and one child has one snack Recognise when groups are equal e.g. when sharing they have the same amount they both have 2 snacks Understand 'numerosity' e.g. that the quantity relates to the number of objects not the size of them Compare two groups by matching one to one, saying whether the groups have the same, more or less Identify the 'first' and 'second' object in a	Notice visual patterns around them. They describe patterns using simple adjectives Begin to notice spatial pattern e.g arrangements of dots in the shape of a triangle, a square, dice patterns, etc) Copy ABABAB patterns, colours, objects, sounds, actions, including size and orientation e.g. big/ small, jump/ twirl, clap/stamp, up/ down, quiet/ loud, yellow/ red, etc Begin to notice growing patterns in stories	Know and use some language of position and direction: in, on, under, up, down, across (NCETM) Know and use language relating to viewpoint: behind, in front of, forwards, backwards, (NCETM) Know shape names and properties of common 2D shapes: circle, triangle, rectangle, square (sides, corners, straight, round, flat/curved, short, long) Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc. (Dev Matters/ NCETM) Combine shapes to make new ones – an arch, a bigger triangle, etc. (Dev Matters)		

	Identify missing characteristics in exact replicas. Stories/ rhymes: two little dickie birds, Noah's Ark (story/ song)			Recognise attributes e.g. point out or select objects which are heavier / lighter/ taller/ longer/ shorter Replicate/ copy by selecting appropriate objects and materials that have similar properties demonstrating that they can compare and explain their ideas Order a set of objects, using a given criterion, which has been modelled e.g. shortest to tallest, biggest to smallest,		
	Subitising	Cardinality, ordinality and counting	Composition	fullest to empiest, etc. Comparison (inc Measures)	Pattern	Shape and Space
Strand Term 3 Children will:	Perceptually subitise within 3 (different arrangements, different representations, range of contexts (e.g. at snack time - "I have 3 oranges or two pairs and one orange) Perceptually subitise 4 then 5 familiar objects when arranged as a, rectangular, linear or diagonal pattern e.g. dice, domino Begin to recognise (perceptually subitise) up to 5 objects in irregular arrangements also. Begin to conceptually subitise objects of different colours e.g. yellow/ blue counters and know that there are 2 blue and 2 yellow so 4 altogether. Begin to conceptually subitise up to 5 different objects in a range of contexts e.g. 3 bananas and 2 apples make 5 pieces of fruit Copy the number of objects e.g. match 5 pebbles to 5 dots on a dice/ domino, Use their fingers to represent quantities which they can subitise- including using different representations e.g. different combinations of fingers. Instantly recognise quantities up to 5 and confidently make a matching copy (this can also include arrangement of the objects). Look critically at different arrangements to identify exact matches. Talk about the numbers they recognise to break up larger quantities e.g. in six objects they may see a three and a three or a four and a two.	Recite numbers in sequence forward up to 10 (rote counting) Recite numbers backward from 5 (rote counting) Relate the counting sequence to cardinality, Understand that the last number spoken gives the number in the entire set Have 1:1 correspondence of fixed items (up to 5 objects), when objects are similar and placed in a line Develop 1:1 correspondence of moveable items (up to 5 objects) Understand that objects that cannot be seen can also be counted (e.g. claps, sounds) Select a small number of objects from a larger group. Begin to recognise numerals 1, 2, 3 (not related to amounts/ number of objects) Recognise numerals of personal significance e.g. age, door number, etc	Match small groups of up 4 objects including dissimilar items such 4 plates for 4 people, 3 chairs for 3 bears, etc Know that 3 is made of three ones (1, 1, and 1) and that four is made of four ones. Compose their own collections within 5.	Make decisions and give reasons about the order of a set of objects, using given attributes. Respond appropriately to questions, with accurate detail to explain their reasoning. Compares collections of 1-4 identical items verbally or nonverbally (just by looking). They begin to compare using number words e.g. one, two, three, four. Matches small (1-4) equal collections consisting of different items e.g. shells and dots, showing that they are the same number. Accurately compares using counting sets of up to 5 objects (objects to be about the same size). Measures: 1. Find something that is heavier/ lighter, longer/ shorter than a given reference item 2. During adult led sessions, utilise strategies such as direct comparison e.g. placing objects side by side to determine which is longer.	Copy, extend and create AB patterns of type e.g. object orientations e.g. up, down Notice and extend quantity patterns Notice, copy and extend patterns in stories Notice, describe, copy and extend growing patterns e.g. increasing quantity of objects Choose their own rule for a pattern and create a pattern.	Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round' (Dev Matters) Know and use language relating to viewpoint: behind, in front of, forwards, backwards, (left, right (NCETM) Represent spatial relationships- make simple representations of a 3D object e.g. design a garden using a tray with sand, twigs, etc, follow a simple map Begin to identify similarities between shapes: represent a ball as a circle, build a train from rectangular blocks, select a tube for an elephant's trunk,' etc.

Vocabulary to be reinforced by adults	Same/ Different More/ Less/ Fewer Match Guess	Number Count Forward/ Backwards How many, Altogether One, two, three ten Next	More/ Less/ Fewer Match Enough	bigger, smaller	morning, afternoon, evening, next, before, after, first,	sides, corners, Straight, flat, round in, on, under, up, down, across behind, in front of, forwards, backwards, (left, right) Same, different More, less, fewer
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