Westerings
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EYFS Maths Progression Document
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## NUMBER

This is likely to be the first strand covered in EYFS and builds on children's early knowledge of number
It is essential that this strand takes place prior to adding and subtracting as there is a prior knowledge demand in both for counting. Similarly, numerals will be naturally a better fit following counting. Children are working here on developing confidence and competence in counting objects to 10, whilst honing their skills in instantly spotting when there are 1,2 , 3,4 or 5 objects presented. They are also beginning to work with comparisons for small numbers. This is where the children will learn how to spot and understand simple numerical patterns, such as odd and even numbers, skills which will help them as they progress through their mathematical journey.

| Stages 1-3 | Stage 4 | Stage 5 | Stage 6 | Stage 7 | Stage 8 | Stage 9 |
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| Recognising \& Representing Numbers |  |  |  |  |  |  |
| Count in everyday contexts, sometimes skipping numbers -'1-2-3-5'. | Recites some number names in sequence. | Recite numbers past 5. | Consistently counts with numbers in order to 10 forwards and begins to do the same backwards. | Consistently counts backwards with numbers in order from 10. <br> Begins to verbally count to 20. | Verbally count beyond 20. | Counts up to 100. <br> Uses efficient counting strategies when solving problems. |
| Joins in counting songs and rhymes; clapping/stamping along to simple rhythms. <br> Develop counting-like behaviour, such as making sounds, pointing or saying some numbers in sequence. <br> Has some understanding that things exist, even when out of sight. <br> Says some counting words randomly whilst pointing at objects. | Begins to join in with adults counting claps, jumps, steps, etc. <br> Count in everyday contexts, sometimes skipping numbers - '1-2-3- | Realises not only objects, but anything can be counted, including steps, claps or jumps. <br> Say one number for each item in order: 1,2,3,4,5. <br> Knows that the last | With support counts objects that cannot be moved \& counts actions. <br> Counts up to 10 objects saying one number for each item (1:1 correspondence) - moveable | Count objects, actions and sounds. <br> Link the number symbol (numeral) with its cardinal number value. <br> Beginning to count objects beyond 10 . | Counts an irregular arrangement of up to 15 objects. <br> Counts up to 15 objects from a larger group. | Beginning to count beyond 20 objects from a larger group. |



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|  |  | objects are in a set. <br> Beginning to link some names of numbers and numerals. |  |  |  |  |
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| Begins to hold objects. <br> Enjoys the sensory experience of making marks in damp sand, paste or paint. <br> Holds pen or crayon using a whole hand (palmar) grasp and makes random marks with different strokes. <br> Makes connections between their movement and the marks they make. <br> Begins to find comfortable ways of grasping, holding and using things they wish to use. |  | Experiment with their own symbols and marks as well as numerals. | Begins to correctly form the numerals 0-5. Show 'finger numbers' up to 5 . | Begins to correctly form the numerals 0-10. | Begins to correctly form the numerals 0-20. | Begins to correctly form the numerals beyond 20. |
| Comparing Numbers |  |  |  |  |  |  |
| Compare amounts, saying 'lots', 'more' or 'same' | Begins to make comparisons between quantities, using some language of quantity, such as 'more' and 'a lot'. | Says 'two' when presented with two identical or similar things <br> Compares two groups of objects saying whether they have the same number or not. <br> Compare | Compare sets of objects up to 5 in different contexts, considering size and difference, using the language of more and fewer. | Compare sets of objects up to 10 in different contexts, considering size and difference, using the language of more and fewer. <br> Use vocabulary: 'more than', 'less than', 'fewer', | Compare sets of objects up to 20 in different contexts, considering size and difference, using the language of more and fewer. | Compare three or more sets of objects beyond 20 in different contexts, considering size and difference. Uses the language of comparisons e.g. more, fewer, most \& fewest |

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|  |  | quantities using language: 'more than', 'fewer than'. |  | 'the same as', 'equal to'. |  |  |
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| Composing Numbers |  |  |  |  |  |  |
|  |  |  | Have a deep understanding of composition of 2 and 3 before moving onto larger numbers. | Have a deep understanding of composition of 4 and 5 before moving onto larger numbers. | Have a deep understanding of numbers to 10 , including the composition of each number. | Have a deep understanding of numbers to 20 , including the composition of each number. |
| React to changes of amount in a group of up to three items | Recognises there is more than one of an item. | Develop fast recognition of up to 3 objects, without having to count them individually ('subitising'). | Consistently subitise (recognise quantities without counting) up to 3. | Begin to Subitise (recognise quantities without counting) up to 5 . | Subitise <br> (recognise quantities without counting) up to 5 and use instant recognition to increase efficiency when counting. | Uses instant recognition to increase efficiency when counting and when counting in $2 \mathrm{~s}, 5 \mathrm{~s}$ or 10 s . |
| Number Patterns |  |  |  |  |  |  |
| Beginning to organise and categorise objects, e.g. putting all the teddy bears together or teddies and cars in separate piles. | Children begin to make their own patterns that may not follow a pattern structure but they can explain them to an adult. | Explore patterns of quantities up to 5; noticing that the quantity gets larger. | Begin to recognise the pattern of the counting system. <br> Explore patterns of numbers within numbers up to 3. | Begin to recognise the pattern of the counting system. <br> Explore patterns of numbers within numbers up to 10 . | Recognises the pattern of the counting system. <br> Explore and represent patterns within numbers up to 10 | Recall even and odd numbers up to 20 .. <br> Counts in 2s. Counts in 10s. Counts in 5 s . |




| React to changes of amount in a group of up to three items. <br> Begins to use the concept of taking away more in their play e.g. 'too much cake mixture, take some away'. Begins to use the language of quantities 'lots', 'more' and 'few' as they play. | Knows that a group of things changes in quantity when something is taken away. | Can count a group of things when something is taken away and know that there has been a change. | Solves a simple subtraction problem (takeaway and difference) using objects. <br> Beginning to use the vocabulary involved in subtracting (e.g. take away, less, subtract, minus, difference) | Solves a simple <br> subtraction <br> problem <br> (takeaway and <br> difference) using <br> pictures. <br> Uses the language of subtraction, including take away, less, subtract, minus, difference. | Subtracts a single digit from another single digit using quantities and objects by counting back. Subtracts a single digit from another single digit using quantities and objects by finding the difference. | Subtract a single digit from a number up to 20 using objects and pictures by counting back. Subtracts a single digit from a number up to 20 using objects and pictures by finding the difference. <br> Correctly uses the language and symbols of subtraction (take away, less, subtract, minus, difference, -, =) |
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| Number Bonds |  |  |  |  |  |  |
|  |  | Separates a group of 3 or 4 objects in different ways; begins to recognise that the total stays the same. | Use objects and pictures to make number bonds and begin to automatically recall number bonds for numbers 0-5. <br> Sustained focus on each number | Automatically recall number bonds for numbers 0-5. <br> Sustained focus on each number to and within 5. | Automatically recall number bonds for numbers 0-5 and some to 10. | Automatically recall number bonds for numbers 0-10. Use objects and pictures to make number bonds for 20. |



## SHAPE AND SPACE

Children will see different shapes in their world around them everyday. This unit is an opportunity for children to learn the names and properties of these shapes and how they can and will be used in the environment inside and outside of school. The introduction of names for shapes and their properties will add to the children's expanding library of mathematical language. Children will also see how these shapes and other items around us can be used to create different types of patterns. This will develop children's understanding of pattern within shape as well as number, and allow them to create their own patterns and describe or recreate patterns they have already seen. As with shape, children will see positional language in action everyday and this unit is the chance for them to verbalise these.

| Stages 1-3 | Stage 4 | Stage 5 | Stage 6 | Stage 7 | Stage 8 | Stage 9 |
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|  | Notice simple shapes in pictures and the environment. <br> Beginning to categorise objects according to properties such as shape or size. | Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc. <br> Combine shapes to make new ones - an arch, a bigger triangle, etc. <br> 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'. | Names and recognises simple 2D (circle, square, triangle, rectangle). | Names and recognises a wider range of 2D shapes (circle, square, triangle, rectangle, quadrilateral, pentagon, hexagon, heptagon, octagon, oval, semicircle) <br> Select, rotate and manipulate shapes to develop spatial reasoning skills. <br> Compose and decompose shapes and recognise a shape can have | Explores characteristics of everyday 2D shapes. | Recognises and names a wide range of 2D shapes. Uses properties of shapes to name more unusual shapes. |

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|  |  |  | other shapes <br> within it, just as <br> numbers can. |
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| Uses blocks to create their own simple structures and arrangements. |  | appropriately: flat surfaces for building, a triangular prism for a roof etc. Combine shapes to make new ones - an arch, a bigger triangle etc. Build with a range of resources. | cone) | cuboid, sphere, cone, pyramid, cylinder, triangular prism) |  | shapes <br> Recognises and names a wide range of 3D shapes. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Beginning to categorise objects according to properties such as shape or size. | Beginning to use everyday language to categorise objects according to properties e.g. pointy, sharp, round. | Uses everyday language to describe shapes e.g. pointy, curved, smooth, flat. | Uses some mathematical language to describe shapes e.g. sides, corners, vertices, edges, faces, curved, straight, surface. | Uses mathematical language to describe 3D shapes. | Describes a wide range of 3D shapes using mathematical language. Uses properties of shapes to name more unusual shapes. |
|  |  |  |  | Begins to make informal 3D shapes using different materials e.g. balls, rolls, etc. | Begins to make recognisable 3D shapes using different materials. |  |
| Notice patterns and arrange things in patterns. | Notice simple patterns in pictures. <br> Talk about and identifies the patterns around | Talk about and identify the patterns around them. For example: stripes on clothes, | Uses familiar objects and common shapes to build models. Extend and create $A B A B$ patterns. | Continue, copy and create repeating patterns. | Recognises, creates and describes patterns. | Recognises, creates and describes patterns using shapes, numbers and other items, |


|  | them | designs on rugs and wallpaper. <br> Use informal language like 'pointy', 'spotty', 'blobs', etc. <br> Extend and create ABAB patterns stick, leaf, stick, leaf. <br> Notice and correct an error in a repeating pattern. | Notice and correct an error in a repeating pattern. |  |  | using multiple variables. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attempts, sometimes successfully, to fit shapes into spaces on inset boards or jigsaw puzzles. <br> Uses blocks to create their own simple structures and arrangements. <br> Climb and squeeze themselves into different types of spaces. <br> Build with a range of resources. <br> Points to named objects and begins to say 'there', 'here'. | Begins to use positional language (there, over, here, in the, by the). | Understand position through words alone - for example, "The bag is under the table," - with no pointing. <br> Describe a familiar route. <br> Discuss routes and locations, using words like 'in front of' and 'behind'. | Can describe their relative position (behind, in front, on top, under, next to). <br> Discuss routes and locations. | Can describe their relative position (behind, in front, on top, under, next to, below, above, in between, left, right, beside outside, inside, around, through). | Uses everyday language to talk about position to compare objects and to solve problems. | Compares objects and talk about properties and position. Begins to appreciate that position is relative describes the position of an object relative to another person/object. |

## MEASURES

Children may have seen different measures in their day-to-day lives; adults exchanging money in the shop, measuring out ingredients whilst cooking or seeing clocks and watches in their house. In this unit children will understand the purpose of these different measurements and understand the concepts that are attached to them. They will use skills that they

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have gained from previous units such as counting, number recognition and addition. They will learn and use the language of money, time and measuring and be able to apply these in their play and in real life contexts. They will use their comparison skills to compare periods of time, quantities of money and different sized objects and measurements.

| Stages 1-3 | Stage 4 | Stage 5 | Stage 6 | Stage 7 | Stage 8 | Stage 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Begins to exchange and swap items with other children. | Begins to show an interest in money in the environment and play. | Begins to recognise the purpose and use of money (not the value of money, but that money is money). <br> Begins to use everyday language related to money e.g money, coin, penny, pence, pound, price, buy, sell, costs, pay. | Begins to recognise coins. Begins to use more advanced language related to money e.g. change, dear, costs more, cheap, costs less, cheaper, costs the same as how much...? how many...? Total, coin names. | Begins to count the correct number of $1 p$ coins or $£ 1$ coins to pay for an item. Uses advanced language to talk about money in context in their play. | Uses larger coins to pay for an item; recognises when change is needed (for whole pounds or pence up to 20). <br> Uses everyday language to talk about money to compare quantities and to solve problems. | Compares and orders money. Selects appropriate coins (may be combinations) to pay for an item <br> Gives correct change in simple transactions. |
| Gets to know and enjoy daily routines, such as getting-up time, mealtimes, nappy time, and bedtime. <br> Begins to understand some talk about the immediate past and future, e.g. 'now' or "later'. <br> Associates a sequence of actions with daily routines. Beginning to understand that things might happen 'now' | Understands some talk about immediate past and future, e.g. 'before', 'later' or 'soon'. <br> Anticipates specific timebased events such as mealtimes or home time. | Begins to use everyday language related to the time of day (morning, afternoon, evening, day time, night time). <br> Talks and asks questions about the time of day. <br> Begin to describe a sequence of events, real or fictional, using | Beginning to use language related to time (next, then, before, after, first). <br> Begins to use clues from the environment to determine what time of day it is e.g. day time, night time, lunch time. <br> Orders and | Uses everyday language related to time (today, yesterday, tomorrow, fastest, slowest, clock, o'clock). <br> Uses clues from the environment to determine what time of day it is e.g. day time, night time, lunch time. | Uses everyday language to talk about time, to compare quantities and to solve problems. <br> Uses clues to determine what time of year it is. <br> Recalls and orders the day of the week. <br> Knows some units | Begins to recognise features of time from a clock e.g. 'The hand is in between 2 and 3'oclock'. The hands are on the 12 , it's 12 o'clock'. Begins to determine the month of the year. |



