



# EYFS Mathematics Curriculum

EYFS Mathematics Educational Programme		Reference to KS1 Mathematics Programme of Study		Links to our St. Gabriel's EYFS Curriculum Goals		
Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Children should be able to count confidently, develop a deep understanding of the numbers to 10, the relationships between them and the patterns within those numbers. By providing frequent and varied opportunities to build and apply this understanding - such as using manipulatives, including small pebbles and tens frames for organising counting - children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built. In addition, it is important that the curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.		The principal focus of mathematics teaching in key stage 1 is to ensure that pupils develop confidence and mental fluency with whole numbers, counting and place value. This should involve working with numerals, words and the four operations, including with practical resources (for example, concrete objects and measuring tools). At this stage, pupils should develop their ability to recognise, describe, draw, compare and sort different shapes and use the related vocabulary. Teaching should also involve using a range of measures to describe and compare different quantities such as length, mass, capacity/volume, time and money. By the end of year 2, pupils should know the number bonds to 20 and be precise in using and understanding place value. An emphasis on practice at this early stage will aid fluency. Pupils should read and spell mathematical vocabulary, at a level consistent with their increasing word reading and spelling knowledge at key stage 1.		To become a <b>Maths Magician</b> who has a good understanding of to 10		
Progression of learning/skills in the area of Mathematics						
Learning/ skills prior to Reception		End of Autumn	End of Spring	End of Summer		Essential learning/skills prior to Year 1
We use the White Rose Maths Scheme to teach Mathematics in EYFS and throughout the school  Children will be assessed as to whether they are on track with WRM scheme throughout the year  At the end of EYFS, Children will be assessed against the two Mathematics ELGs which are 'Number' and 'Numerical Patterns'. There is no ELG for Measure, Shape and Spatial Thinking	<b>Number:</b>  Use number names in play  Use 1-1 correspondence to count up to 5 objects  Give up to 3 objects when asked and stop when you have enough  Recognise some numbers of significance e.g. 3, 4 and 5  Identify which group has more and which group has fewer  Know that the last number reached when counting tells us how many there are  Solve some mathematical problems up to 5  <b>Measure, Shape and Spatial Thinking:</b>  Identify most/all colours  Use words such as 'big', 'small' and 'heavy' in play  Make comparisons between objects e.g. size, length, weight and capacity  Identify some 2D shapes	<b>Block 1 – Match, sort and compare (2 weeks)</b> Match objects and pictures Match/identify a set Sort objects to a type Explore sorting techniques Create sorting rules Compare amounts  <b>Block 2 – Talk about measure and patterns (2 weeks)</b> Compare size Compare mass Compare capacity Explore simple patterns Copy and continue patterns Create simple patterns  <b>Block 3 – It's me 1, 2, 3 (2 weeks)</b> Find 1, 2 and 3 Subitise 1, 2 and 3 Represent 1, 2 and 3 1 more 1 less Composition of 1, 2 and 3  <b>Block 4 – Circles and triangles (1 week)</b> Identify and name circles and triangles Compare circles and triangles Shapes in the environment Describe position  <b>Block 5 – 1, 2, 3, 4, 5 (2 weeks)</b> Find 4 and 5 Subitise 4 and 5 Represent 4 and 5 1 more 1 less Composition of 4 and 5 Composition of 1-5  <b>Block 6 – Shapes with 4 slides (1 week)</b> Identify and name shapes with 4 sides Combine shapes with 4 sides Shapes in the environment My day and night	<b>Block 1 – Alive in 5! (2 weeks)</b> Introduce zero Find 0-5 Subitise 0-5 Represent 0-5 1 more 1 less Composition Conceptual subitising to 5  <b>Block 2 – Mass and capacity (1 week)</b> Compare mass Find a balance Explore capacity Compare capacity  <b>Block 3 – Growing 6, 7, 8 (2 weeks)</b> Find 6, 7 and 8 Represent 6, 7 and 8 1 more 1 less Composition of 6, 7 and 8 Make pairs – odd and even Double to 8 (find a double) Double to 8 (make a double) Combine two groups Conceptual subitising  <b>Block 4 – Length, height and time (2 weeks)</b> Explore length Compare length Explore height Compare height Talk about time Order and sequence time  <b>Block 5 – Building 9 and 10 (3 weeks)</b> Find 9 and 10 Compare numbers to 10 Represent 9 and 10 Conceptual subitising to 10 1 more 1 less Composition to 10 Bonds to 10 (2 parts) Make arrangements of 10 Bands to 10 (3 parts) Doubles to 10 (find a double) Doubles to 10 (make a double) Explore even and off  <b>Block 6 – Explore 3-D shapes (2 week)</b> Recognise and name 3-D shapes Find 2-D shapes within 3-D shapes Use 3-D shapes in the environment Identify more complex patterns Copy and continue patterns Patterns in the environment	<b>Block 1 – To 20 and beyond (2 weeks)</b> Build numbers beyond 10 (10-13) Continue patterns beyond 19 (10-13) Build numbers beyond 10 (14-20) Continue patterns beyond 10 (14-20) Verbal counting beyond 20 Verbal counting patterns  <b>Block 2 – How many now? (1 week)</b> Adding more How many did I add? Take away How many did I take away?  <b>Block 3 – Manipulate, compose and decompose (2 weeks)</b> Select shapes for a purpose Rotate shapes Manipulate shapes Explain shape arrangements Compose shapes Decompose shapes Copy 2-D shape pictures Find 2-D shapes within 3-D shapes  <b>Block 4 – Sharing and grouping (2 weeks)</b> Explore sharing Sharing Explore grouping Grouping Even and odd sharing Play with and build doubles  <b>Block 5 – Visualise, build and map (3 weeks)</b> Identify units of repeating patterns Create own pattern rules Explore own pattern rules Replicate and build scenes and constructions Visualise from different positions Describe positions Give instructions to build Explore mapping Represent maps with models Create own maps from familiar places Create own maps and plans from story situations  <b>Block 6 – Make connections (1 week)</b> Deepen understanding Patterns and relationships	<b>Number ELG</b> Have a deep understanding of number to 10, including the composition of each number  Subitise (recognise quantities without counting) up to 5  Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts  <b>Numerical Patterns ELG</b> Verbally count beyond 20, recognising the pattern of the counting system  Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity  Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally  <b>There is no ELG for Measure, Shape and Spatial Thinking</b>	<b>Number</b>  <b>Number and Place Value:</b> Secure understanding of numbers to 10, representing numbers up to 10 in different ways and using language to compare numbers/quantities/pictures Say and order ordinal number to 5  <b>Addition and subtraction:</b> Linking addition and subtracting to the part-part-whole model and to be able to understand that addition is getting bigger and subtracting is getting smaller  <b>Multiplication and Division:</b> Know that multiplication is repeated addition and that division is sharing  <b>Fractions:</b> Understanding the concept of whole and half  <b>Shape, Space and Measure</b>  <b>Measurement:</b> Use appropriate language to compare length, weight, capacity and time  <b>Geometry - Properties of shapes:</b> Name circle, triangle, square and rectangle and describe their properties to help group shapes. To begin to know what 3D shapes look like and that they are different to 2D shapes  <b>Geometry - Position and direction:</b> Understand and use positional language (prepositions) beginning to use the words 'left' and 'right'



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