## , <br> Catholic Multi Academy Trust

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Educational Programmes: 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

Mathematics 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.
Numerical Pattern and Number

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Early Mathematical Experiences <br> - Classifying objects based on one attribute <br> - Matching equal and unequal sets <br> - Comparing objects and sets <br> - Ordering objects and sets <br> Pattern and Early Number <br> - Recognise, describe, copy and extend colour and size patterns <br> - Count and represent the numbers 1 to 3 <br> - Estimate and check by counting | Numbers within 6 <br> - Count up to six objects. <br> - One more or one fewer <br> - Order numbers 1 - 6 <br> - Conservation of numbers within six <br> Addition and subtraction within 6 <br> - Explore zero <br> - Explore addition and subtraction <br> Measures <br> - Estimate, order compare, discuss and explore capacity, weight and lengths <br> Shape and sorting | Numbers within 10 <br> - Count up to ten objects <br> - Represent, order and explore numbers to ten <br> - One more or fewer, one greater or less <br> Calendar and time <br> - Days of the week, seasons <br> - Sequence daily events <br> Addition and subtraction within 10 <br> - Explore addition as counting on and subtraction as taking away <br> Grouping and sharing | Number patterns within 15 <br> - Count up to 15 objects and recognise different representations <br> - Order and explore number patterns to 15 <br> - One more or fewer <br> Doubling and halving <br> - Relationship between doubling and halving <br> Shape and Pattern <br> - Describe and sort 2D and 3-D shapes <br> - Recognise, complete and create patterns | Securing addition and subtraction facts <br> - Commutativity Explore addition and subtraction <br> - Compare two amounts <br> Number patterns within 20 <br> - Count up to 10 and beyond with objects <br> - Represent, compare and explore numbers to 20 <br> - One more or fewer <br> Number patterns beyond 20 <br> - One more one less <br> - Estimate and count <br> - Grouping and sharing | Measures <br> - Describe capacities <br> - Compare volumes <br> - Compare weights <br> - Estimate, compare and order lengths <br> Exploration of patterns within number <br> - Explore numbers and strategies <br> - Recognise and extend patterns <br> - Apply number, shape and measures knowledge <br> - - Count forwards and backwards |



