

Supporting your child at home:

Maths in EYFS



MATHS IN THE EYFS CURRICULUM

- ◉ 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.
- ◉ Maths is split into 2 areas in the curriculum:
 - Numbers
 - Numerical patterns



CHILDREN IN RECEPTION WILL BE LEARNING TO...

- ◉ Count objects, actions and sounds.
- ◉ Subitise (seeing an amount without counting).
- ◉ Link the number symbol (numeral) with its cardinal number value (quantity of things).
- ◉ Count beyond ten.
- ◉ Compare numbers (more/less/fewer/same/equal)
- ◉ Understand the 'one more than/one less than' relationship between consecutive numbers.
- ◉ Explore the composition of numbers to 10
- ◉ Automatically recall number bonds for numbers 0-5 and some to 10.
- ◉ Select, rotate and manipulate shapes to develop spatial reasoning skills.
- ◉ Compose and decompose shapes so that children recognise a shape can have other shapes *within* it, just as numbers can (e.g. 2 triangles can make a square).
- ◉ Continue, copy and create repeating patterns.
- ◉ Compare length, weight and capacity.



NUMBER ELG

Children at the expected level of development will:

- 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.



NUMERICAL PATTERNS ELG

Children at expected level of development will:

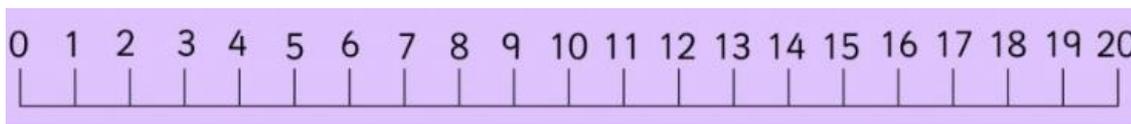
- ◉ Verbally count beyond 20, recognising the pattern of the counting system;
- ◉ Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;
- ◉ Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.





WHAT DO WE DO IN SCHOOL?

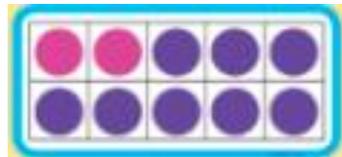
- Children have many opportunities to learn maths in our classroom, hutch and outdoor area. Many activities are set up where your child can explore these activities.
- Children will learn using our Power Maths scheme where whole-class teaching is used to teach a new concept. This scheme enables all children to access a mastery curriculum, helping them to reason, problem solving and develop a deeper understanding of the maths concepts.
- An adult-led activity will be completed with your child in a Power Maths Journal. This will be done one-to-one or in small groups. The Power Maths Journal have a range of activities that are practical and written.
- We encourage the use of many resources, for example; numicon, cubes and number lines to support your child. These resources help your child show and explain their working out.



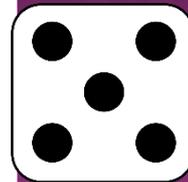
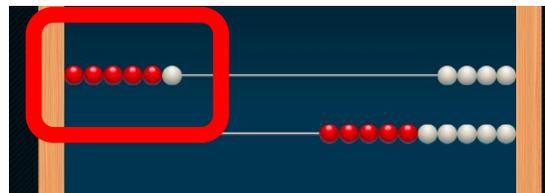
WHAT DO WE DO IN SCHOOL?



- ◉ 4 sessions a week, 10-15 minutes of whole class teaching using the NCETM Mastering Number Programme.
- ◉ Aims to develop good number sense for children.
- ◉ Children focus on subitising (seeing amounts without having to count). Children would see these dots and know that it is 5 without counting.
- ◉ Numberblocks are used to support children with early maths.
- ◉ Use of different representations are encouraged, e.g. this ten frame shows $2+8=10$.



- ◉ Rekenreks are used to develop numerical pattern spotting, e.g. 6 is all of the beads at the top because there are 5 red and 1 white. <https://www.youtube.com/watch?v=gtb7X2UJNWw>



HOW YOU CAN SUPPORT YOUR CHILD IN MATHS...

- ◉ Sing number songs.
- ◉ Use language related to addition and subtraction, e.g. total, together, take away, one/two less.
- ◉ Spot numbers in the local environment (house numbers, car registration plates, price tags).
- ◉ Count toys, sweets, food etc...
- ◉ Find shapes in the local environment.
- ◉ Create patterns using everyday objects e.g. leaves and sticks.
- ◉ Use language related to measure (heavy, light, long, short, tall, full and empty).
- ◉ Play maths games on the computer/ipad. Some good websites/apps:
 - Cbeebies Maths and Literacy games
 - Numberblocks
 - Topmarks maths games (website)
 - ICT Games (website)
 - Busythings (website)

