

Mathematics

Intent-What are we trying to achieve?

At Yeading Infant and Nursery school we aim for our all children to enjoy maths from an early age.

We provide opportunities for children to

- become fluent in the fundamentals and understand how having good mathematical understanding and skills will enhance their knowledge and understanding of the world
- see the beauty in maths and understand how it helps us to solve real-world problems

This means they need to master the basic concepts of

- number
- space
- measurement
- statistics

We aim to enable our children to solve problems and justify their reasoning using accurate mathematical language with confidence.

Implementation- How is the curriculum delivered?

Our **Maths Mastery** approach is designed to give all our children the knowledge and cultural capital they need to succeed in life.

Through teaching for mastery, pupils deepen their understanding of mathematics, rather than memorising key procedures or resorting to rote learning.

The three key principles of mastery are:

- conceptual understanding is key;
- pupils must be able to speak in full sentences applying correct mathematical vocabulary;
- pupils can learn to think like mathematicians.

We use the Concrete-Pictorial-Abstract approach as one of our main mastery approaches and it is being implemented from Nursery to Year 2. Concrete and pictorial representations of number are used before moving on to the abstract. Building these steps across a lesson helps pupils better understand the value of digits and the relationship between numbers and the real world.

Pupils then build fluency by learning their number bonds, times tables and increasing their knowledge and rapid recall of number facts.

The curriculum for each year group is planned and adapted by the teachers to meet their specific year group objectives.

Our children have access to high quality resources such as

- numicons
- dienes
- place value counters
- rekenreks
- magnetic ten frames



There is a balance of practical and written activities to develop and consolidate areas of learning and enable every child to reach their full potential. We promote the use of practical investigations and problem-solving activities and balance independent learning with collaborative learning. We strive for our children to see MATHS in the 'real world' context at every opportunity to build confidence and see the relevance of the subject.



All teachers provide cross-curriculum links for maths, especially through outdoor learning. (Forest School, YINs Café, gardening, cooking etc.)

The Number Day (NSPCC) is another successful way to further promote maths through fun-filled activities.



Impact- What difference is the curriculum making?

Our pupils are:

- Becoming fluent in the fundamentals of mathematics through varied and frequent practice with complexity increasing over time.
- Developing conceptual understanding and ability to recall and apply knowledge rapidly and accurately.
- Reasoning through developing an argument using mathematical language
- Solving problems in a variety of contexts and breaking down problems into smaller steps

If you visited a maths lesson at Yeading Infants and Nursery School you would see:

- Enthusiasm, excitement and passion about maths.
- Children using specialist mathematical vocabulary and terminology confidently.
- Children using their prior learning in moving their maths understanding forward.
- Access to appropriate and high-quality maths resources to support and extend children's learning.
- A variety of practical investigations, problem solving activities with a balance of independent and collaborative learning.
- Pupils viewing maths in the 'real world' context at every opportunity.
- Teachers and Teaching Assistants supporting different groups of children to deepen their understanding.
- Children using a Growth Mindset.