

Maths

At Yorkmead, we teach Mathematics using 'Maths No Problem', an approach to teaching maths developed in Singapore. Problem solving, fluency and relational understanding are at the heart of the scheme. With this approach, we aim to develop a love for mathematics, where all children feel confident and enjoy maths.

Maths No Problem uses the Concrete Pictorial Abstract (CPA) approach which allows pupils to explore mathematical concepts in real world ways, before moving on to abstract concepts. All ideas are built on previous knowledge and pupils have ample opportunity to practise and develop their understanding of the relationships between topics in order to build deeper understanding.

Lessons typically are broken into five parts:

1. Retrieval Practice – the children complete a short activity which provides an opportunity to practise previously taught concepts and develop their mathematical fluency.
2. Anchor Task – the entire class spends time on a question guided by the teacher. Children explore the problem through discussion, paired work, concrete resources, drawing pictures and using equations. They are encouraged to consider many possible ways to approach the same problem.
3. New Learning – the teacher explores the children's solutions to the anchor task and explains the mathematical knowledge that underpins their thinking whilst also introducing the class to alternative methods.
4. Guided Practice – children practice new learning in groups, pairs or individually guided by the teacher.
5. Independent Practice – children have the opportunity to demonstrate their understanding independently which then informs the teacher's assessment of their progress in the lesson.

Key points:

- A highly effective approach to teaching mathematics based on research and evidence;
- Builds students' mathematical fluency;
- Introduces new concepts using Bruner's Concrete Pictorial Abstract (CPA) approach;
- Pupils learn to think mathematically as opposed to reciting formulas they don't understand;
- Teaches strategies to solve problems such as drawing a bar model.

Find out more at the [Maths No Problem](#) website.

We also use [Times Tables Rockstars](#) as a tool to help pupils develop fluency in multiplication tables.

For homework, children use [Mathletics](#) to practise previously learnt maths.