



Maths at Tittensor First School

'The powerful thinkers are those who make connections, think logically, and use space, data, and numbers creatively.'

- Jo Boaler

Rationale – Why do we teach Maths?

Mathematics is a creative and highly inter-connected subject that has been developed over centuries, providing the solution to some of history's most intriguing problems. Everyone has a 'mindset' – an idea about ability and potential. Different mindsets have associated behaviours that have a huge impact on learning and achievement. At Tittensor, we encourage our children to have a 'growth mindset'. Those with a growth mindset believe that achievement increases with hard work and that everything they learn makes them more knowledgeable. They will also persist longer on problems, relish challenge and learn from mistakes whereas those with a fixed mindset give up easily, avoid challenging problems and dislike making mistakes. We believe the teaching of Mathematics provide children with the opportunity to think logically and accurately problem-solve.

What are the aims of the Maths curriculum?

At Tittensor, we want to children to become fluent in the fundamentals of mathematics so that they have a conceptual understanding and are able to recall and apply their knowledge rapidly and accurately to problems using metacognitive strategies. Maths is taught throughout an inclusive curriculum, which fosters questioning, thinking and problem solving in order to build confidence to enable pupils to apply knowledge and skills with assurance. We have invested in the TimesTableRockStar programme in order to develop a love of Maths and embed the rapid re-call of times table facts throughout our school. We aim to ensure that all children can access, apply and reason within their own mathematical ability, providing all children with an equal opportunity to develop their mathematical understanding.

What do we expect within the teaching of Maths?

At Tittensor, we expect that all teachers fully engage with the Maths curriculum and provide high quality teaching and learning opportunities using White Rose Maths. Maths within all key stages should allow children to develop mental strategies, use mathematical vocabulary to reason and explain. Within a lesson, children are expected to work both independently and collaboratively with others and should be encouraged to use mathematical language in order to discuss, order, explain and express ideas. Maths is expected to be taught daily, for a minimum of 1 hour in KS1 and KS2. Feedforward sheets are used for in-the-moment marking.

Teachers are expected to plan and use adaptive teaching so lessons provide children with opportunities to practise and apply skills across the curriculum and enable them to talk about how they learn. Starting in EYFS, teachers are expected to support children's development of key fundamental skills through the CPA approach which is built upon during KS1 and KS2, slowly building up to verbal and written reasoning. All data and assessment is recorded and stored on DCPro for monitoring and evidence purposes.

What is taught in Maths at Tittensor?

Focus/Unit	Nur	Rec	Y1	Y2	Y3	Y4
Number and place value	✓	✓	✓	✓	✓	✓
Addition and subtraction	✓	✓	✓	✓	✓	✓
Multiplication and division		✓	✓	✓	✓	✓
Fractions			✓	✓	✓	✓
Measurement	✓	✓	✓	✓	✓	✓
Properties of shape	✓	✓	✓	✓	✓	✓
Position and direction	✓	✓	✓	✓	✓	✓
Statistics				✓	✓	✓
Problem Solving – verbal reasoning	✓	✓	✓	✓	✓	✓
Problem Solving – written reasoning			✓	✓	✓	✓