



At Thorp Primary School, we follow the statutory guidance given in The National Curriculum 2014 documents in Years 1-6 and the Statutory Framework for the Early Years Foundation Stage in Nursery and Reception.

Early Years (Nursery and Reception)

Within the Early Years Foundation Stage children are working towards the Early Learning goals as set out by the government in the statutory framework for the Early Years Foundation Stage.

This document states that there are seven areas of learning (three prime areas and four specific areas). One of the specific areas is Mathematics. In order for a child to reach a 'Good Level of Development' at the end of the foundation stage children have to have achieved the 'Early Learning Goals' for all three prime areas, Literacy and Mathematics.

Mathematics involves providing children with opportunities to develop and improve their skills in counting, understanding and using numbers, calculating simple addition and subtraction problems; and to describe shapes, spaces, and measure.

Key Stages 1 and 2 (Years 1-6)

The National Curriculum of England for Key Stage 1 and 2 states that the overarching aims of the teaching of maths are:

- Children become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- Children can reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- Children can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions

Our approach to teaching Maths – Maths mastery

At Thorp Primary School we want to build a culture of deep understanding, confidence and competence in maths. A culture that produces strong secure learning and real progress where EVERYONE CAN DO MATHS. This is achieved by helping pupils become assured, happy and resilient mathematicians who relish the challenge of maths so that they become independent, reflective thinkers, whose skills not only liberate them in maths but also support them across the curriculum.

We do this by using up to date and government recommended methods - commonly known as the Maths mastery approach. This involves using a CPA approach (concrete, pictorial abstract methods) which uses practical resources, pictures and diagrams to help pupils of all ages to develop a deep understanding of maths. Staff at Thorp have received extensive training in this approach from White Rose Maths and the White Rose Schemes of Work are being used from years 1- 6 and , as the scheme has now been released for Reception, we are continuing to develop the maths mastery approach in our EYFS classes.



This approach enables the children to be taught in mixed ability groupings whilst ensuring that all children are developing a deeper understanding of maths concepts. Children are given a variety of fluency, reasoning and problem solving activities each day, which build up their understanding over several weeks. They are also given opportunities of applying this learning in other subjects such as measuring in Science and graph work in topic.

Written arithmetic practice (WAP)

To ensure that pupils are able to readily retrieve their knowledge and understanding of the maths they have been learning, we also have dedicated written arithmetic practice time (WAP) every day. This normally focuses on number and written calculations and takes place after lunch for 15 minutes but this is adjusted to fit in with other class commitments.

Doodle Maths

Homework in maths is also designed to allow the children to practise their learning each day. We subscribe to the online app Doodle Maths and all children from year one to year 6 have an individual login and password. This enables children to practise a few questions every day in a fun way and all children are expected to use this app at least 3 times per week. There is also a times table app which is available for all pupils to help the children practise their tables regularly.

The Future

Now we are part of the Oak Trust, we have the opportunity of developing our maths mastery approach further by becoming part of a primary mathematics teaching for mastery work group, led by the National Maths Hub in our area. This will allow all schools within the Oak Trust to work together with other schools in the area, to further improve how we teach maths and to ensure that ours is a school where EVERYONE CAN DO MATHS.

More information

We are very aware that how we teach maths in school is very different to how parents and grandparents learnt maths. So, if you would like some advice about supporting your child at home with their mathematical skills, please contact your child's class teacher and they will be happy to explain class methods to you, or if you would like more general information about how we teach and the children learn maths, please contact our maths lead in school, Mrs Phillips.