

Intent:

What do we want children to learn?

Children learn to be deep thinkers and apply learned skills to problem solve across the curriculum.

Through engaging maths lessons, our learners challenge themselves and are resilient, whilst developing a sense of curiosity and linking fundamental knowledge to the wider world.

We aim for all pupils to:

- become **fluent** in the fundamentals of mathematics so that they can develop a conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- have an **appreciation of number** and number operations, which enable them to perform mental calculations and written procedures efficiently, fluently and accurately.
- be confident in **solving problems** and applying their mathematics to a variety of problems with increasing sophistication, including in unfamiliar contexts and to model real-life scenarios.
- **reason mathematically** by following a line of enquiry and develop and present a justification, argument or proof using mathematical language.

Maths in a Nutshell



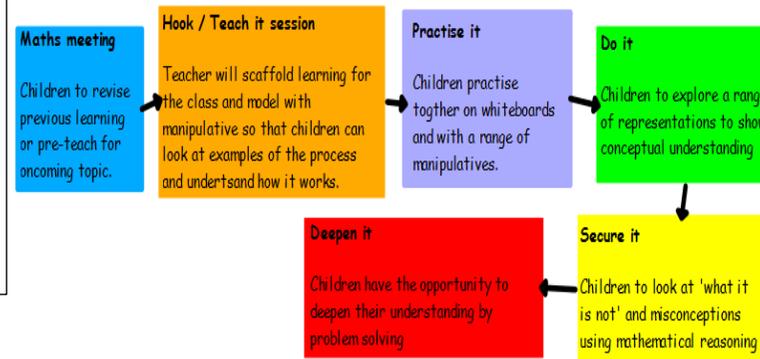
Grange Junior School

Implementation:

How do we do it at Grange Juniors?

As a school, we use the Mastery learning model which forms the basis of our approach to teaching maths. This means spending greater time going in to depth about a subject as opposed to racing through the concepts and knowledge pupils are expected to know by the end of each year group. Our intention is to take learning at a measured pace.

This will better ensure no child is left behind as well as providing deeper and richer experiences for children who are grasping ideas quickly. All students and staff are expected to use a range of concrete resources and pictorial representations in order for varied fluency and competent reasoning to be achieved. Pupils will spend time becoming true masters of content, applying and being creative with new knowledge in multiple ways. We believe that, with good teaching, appropriate resources, effort and reference to our 5 key values, all our children can achieve and enjoy maths.



Impact:

On leaving Grange Junior School children will:

- have developed **enjoyment** and a **sense of curiosity** about maths.
- have a **'Can Do' attitude** and the belief that everyone can achieve.
- know that the use of **mistakes and misconceptions is an essential** part of learning and provides challenge through rich and sophisticated problems.
- be able to use a range of **manipulatives effectively** to explain their thinking.

What Maths looks like at Grange Junior School:

Our unit planning is based on National Curriculum Statements and we use Can Do Maths to give us our manageable, small steps for daily teaching. Challenge is visible throughout the whole session, where children are asked to reason and prove their understanding at a deeper secure level.

Maths meetings are used at Grange but are dependent on individual teacher's assessment and judgement of skills that are needed to be revisited. They can also be used for explicit teaching of timetables or pre-teaching an upcoming skill.