

Intent

What do we want children to learn?

Through mathematics children learn to be deep thinkers and apply learned skills to solve problems across the whole curriculum. Through engaging mathematics lessons, we teach our learners to consistently challenge themselves and persevere, whilst ensuring they develop a sense of curiosity and fundamental knowledge about their world.

We aim for pupils to:

- 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
- **Reason mathematically** by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- be able to **solve problems** by applying their mathematics to a variety of problems with increasing sophistication, including in unfamiliar context and to model to real-life scenarios.
- have an **appreciation of number** and the number operations, which enables mental calculations and written procedures to be performed efficiently, fluently and accurately to be successful in mathematics.

A typical Maths lesson:

Maths Lesson (45minutes) Every day	'MOT' (15 minutes) Maths on Track sessions
'Learning Together' Teach it!	Skills sessions
Practise it! Do it!	Arithmetic / Intervention / Practise / Recovery curriculum
Secure it!	
Deepen in!	

Maths in a Nutshell



Implementation

How do we do it at Haydon Wick?

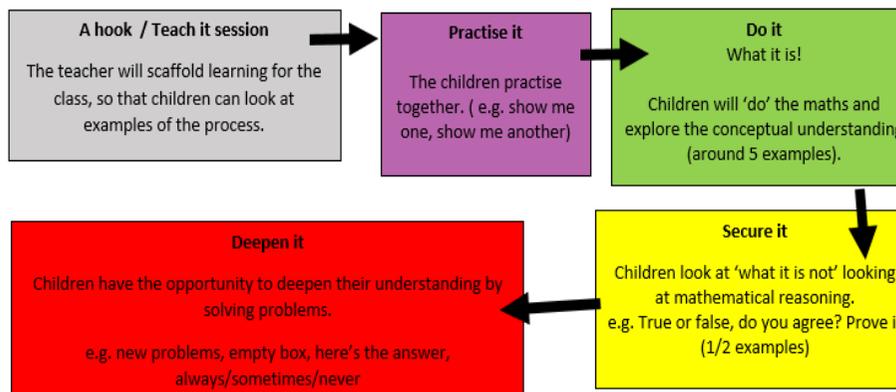
At Haydon Wick the Mastery learning model forms the basis our approach to teaching maths. This means spending greater time going in to depth about a subject as opposed to racing through the concepts and knowledge pupils are expected to know by the end of each year group. Our intention is take learning 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. We focus on the majority of children achieving what is expected of their age group and not going beyond this.

At our school, the majority of children will be taught the content from their year group only. They 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 a 'can do' attitude that all our children can achieve and enjoy maths. We want children to know that sometimes we just can't do something...YET!

What does maths looks like at Haydon Wick?

Our unit planning is based on National Curriculum Statements and we use Can Do Maths to give us our manageable 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.

What does a lesson look like at Haydon Wick?



Impact

By the end of KS2 we aim for the children to be fluent in the fundamentals of mathematics with a conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.

They should have the skills to solve problems by applying their mathematics to a variety of situations with increasing sophistication, including in unfamiliar contexts and to model real life situations. Children will be able to reason mathematically by following a line of enquiry and develop and present a justification, argument or proof using mathematical language.