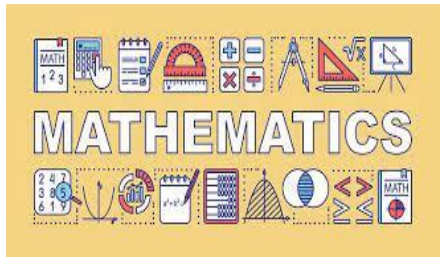
Mathematics: all summed up!

Intent: What do we want our children to learn?

At Tregoze Primary School, we foster positive 'can do' attitudes, believe all children can achieve in mathematics, and teach for secure and deep understanding of mathematical concepts. We use mistakes and misconceptions as an essential part of learning and provide challenge through rich and sophisticated problems before acceleration through new content.

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.



Implementation: How do we achieve this at Tregoze?

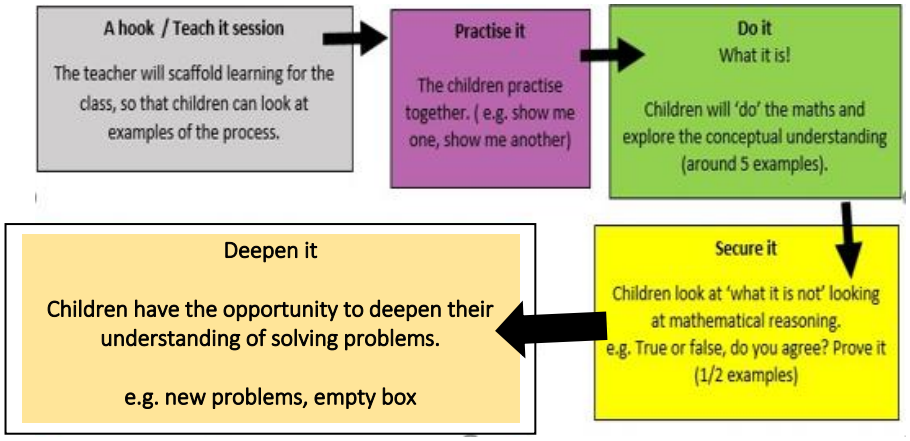
The Mastery learning model forms the basis of our approach to teaching maths. This means spending greater time going in to depth about a subject as opposed to racing through the concepts and knowledge pupils are expected to know by the end of each year group.

We offer a maths curriculum which aims to develop a deep and secure understanding, and therefore all lessons provide opportunities for the children to develop their fluency, reasoning and problem solving skills. This approach to maths ensures that ALL children master and secure their maths learning and knowledge before moving on. We firmly believe that ability is not fixed and this approach means that all children are offered the same opportunities and chances to achieve.

All children are taught maths daily but we also offer a discrete 'Maths On Track' sessions in the afternoon. This is a short session, in which the children work on their knowledge of addition, subtraction, multiplication and division, with the aim of developing fluency. These sessions also provide opportunities to practise problem solving or recap previous learning in order to prevent gaps in knowledge occurring.

A typical Maths lesson:

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



Impact: How do we know?

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.
- To 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.
- To be able to reason mathematically by following a line of enquiry and develop and present a justification, argument or proof using mathematical language.