



Maths at All Saints

Tuesday 30th October

Teaching for Mastery

What is it?

- Evidence based approach to teaching maths.
- Transformational approach which stems from high performing Asian nations such as Singapore and China.
- Pupils are taught through whole-class interactive teaching, where the focus is on all pupils working together on the same lesson content at the same time. This ensures that all can master concepts before moving to the next part of the curriculum sequence, allowing no pupil to be left behind.
- Significant time is spent developing deep knowledge of the key ideas that are needed to underpin future learning and ensure the learning is sustained.
- Mastery is something we want pupils to acquire and go on acquiring.

“Mastery is how a child can apply much of the curriculum as a whole in more complex and in-depth, cross-objective, multi-modal methods. It demonstrates how skilfully a child can apply their learning. Mastery is not just knowing a fact, but it is using that fact in increasingly more complex situations.”

Teaching for Mastery

WHY?

2014 new national curriculum.



Previously, Levels measured **how much a child had learned** - how many objectives and whether they could get the questions correct when they were asked.

In the new National Curriculum and its testing and assessment arrangements, pupils are assessed on:

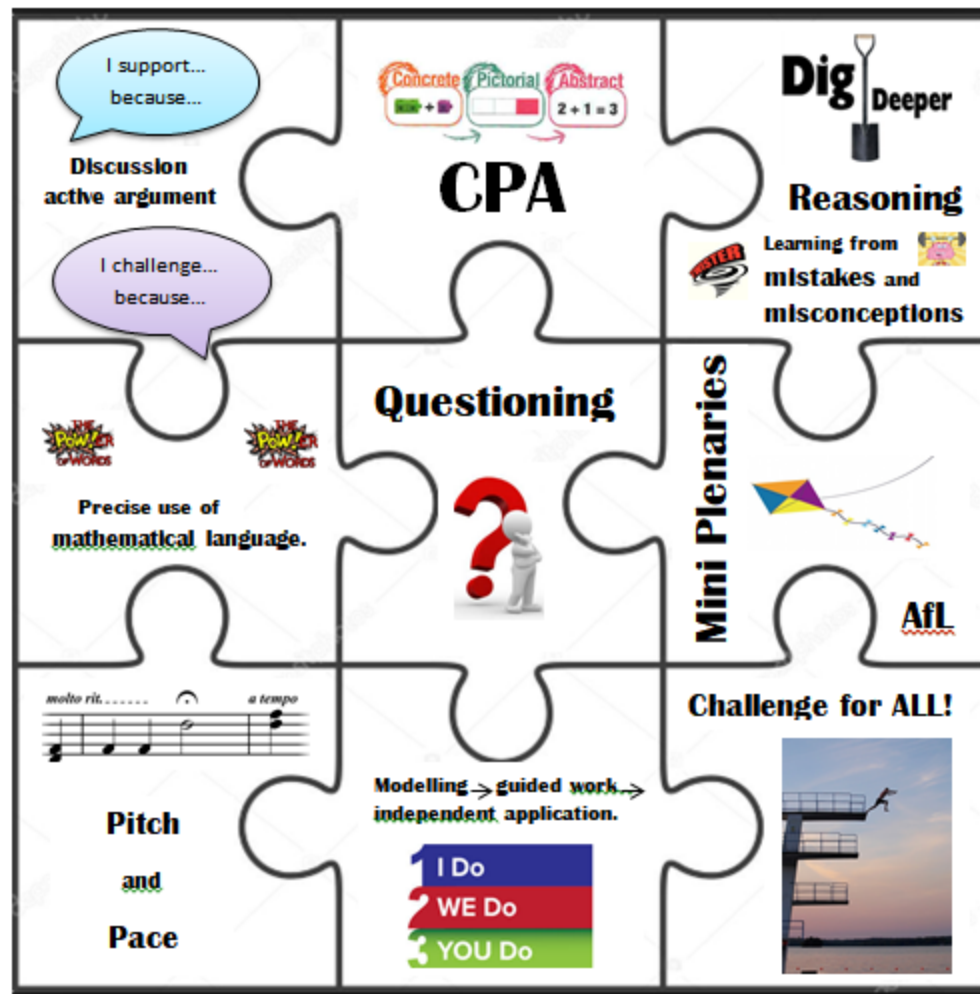
1. The objectives (parts of the National Curriculum) a child has achieved
2. The depth to which they can use and apply their knowledge of these objectives (Mastery)



The approach is endorsed by DfE, NCETM and Ofsted.

What does it look like at All Saints?

The **key elements** of every maths lesson are:



In addition

To achieve mastery...

Key facts such as multiplication tables and addition facts are learnt to automaticity to avoid cognitive overload in the working memory and enable pupils to focus on new concepts.

- ✓ 15 minutes daily fluency sessions.
- ✓ Times table Rockstars

Impact

	Working at the Expected Standard		
	2016	2017	2018
KS1 Maths Attainment	47	72	77
KS2 Maths Attainment	63	66	83



Workshops

1.CPA - Concrete, pictorial, abstract

2.Bar modelling

3.Number bonds

4.Reasoning