

Key Instant Recall Facts (KIRFs)

Children in Year 1 to Year 6 focus on KIRFS each half term to learn by heart, key facts and information which they need to have instant recall of.

Assertive Mentoring

Our pupils complete Assertive Mentoring Skills Checks which provide regular coverage of the essential skills needed to ensure good pupil progress in Maths across the whole school. The children are encouraged to beat their own scores weekly.



TTRockstars and Numbots

Children are encouraged to access TTRockstars/ Numbots daily to practise key facts and to help them to develop rapid recall and number fluency.



Progression in Written Calculation

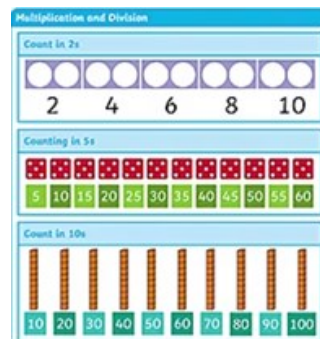
Our Written Calculation Policy provides a step by step approach to the teaching of written calculations. By the end of Year 6, the vast majority of pupils should be fluent in written methods for all four operations, including long multiplication and division, and in working with fractions, decimals and percentages.

Knowledge Organisers

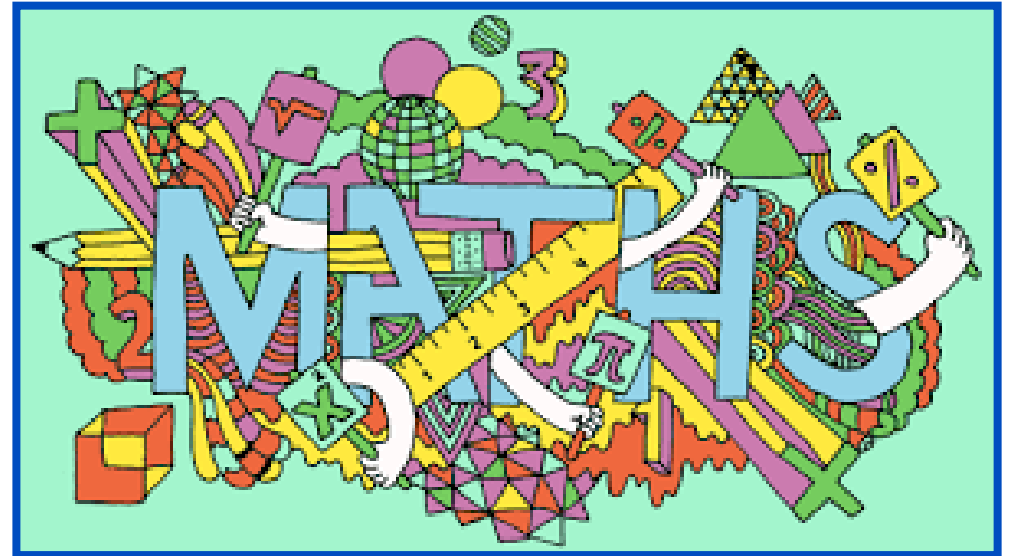
We have introduced Knowledge Organisers which contain key facts and information that children need to have basic knowledge and understanding of the topic.

Our Knowledge Organisers include:

- ♦ the essential facts about the topic presented in easily digestible chunks;
- ♦ key vocabulary or technical terms and their meanings;
- ♦ helpful representations, images or examples of calculations, to support recall and to help the children to complete their tasks.



Mathematics at St John Vianney Catholic Primary School



In a Nutshell



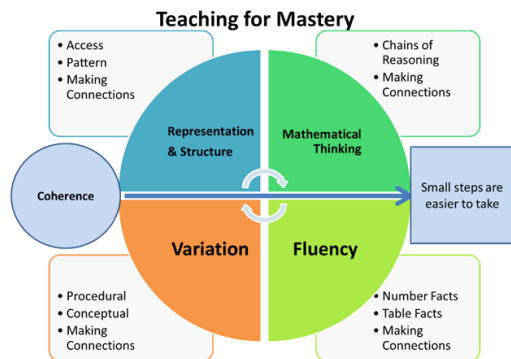
Mathematics at St John Vianney

Our Philosophy

The **2014 National Curriculum** for Maths aims to ensure that all children:

- become fluent in the fundamentals of Mathematics;
- are able to reason mathematically;
- can solve problems by applying their Mathematics.

At St John Vianney, these skills are embedded within Mathematics lessons and developed consistently over time. We are committed to ensuring that children are able to recognise the importance of Maths in the wider world and that they are also able to use their mathematical skills and knowledge confidently in their lives in a range of different contexts. We want all children to enjoy Mathematics and to experience success in the subject, with the ability to reason mathematically. We are committed to developing children's curiosity about the subject, as well as an appreciation of the beauty and power of Mathematics.



Our school invested in **Power Maths** two years ago. This is a Mastery programme designed to spark curiosity and excitement and nurture confidence in maths.



St John Vianney began its partnership with the Origin Maths Hub four years ago to implement Teaching for Mastery. This approach involves five big ideas: **Representation and Structure; Mathematical Thinking; Variation; Fluency and Coherence**. These five big ideas link directly to the three aims of the 2014 National Curriculum: **Fluency, Reasoning and Problem Solving**.

'Mastering maths means pupils of all ages acquiring a deep, long-term, secure and adaptable understanding of the subject. The phrase 'teaching for mastery' describes the elements of classroom practice and school organisation that combine to give pupils the best chances of mastering maths. Achieving mastery means acquiring a solid enough understanding of the maths that's been taught to enable pupils to move on to more advanced material.'

NCETM - National Centre for Excellence in the Teaching of Mathematics



We use a CPA approach to learning in Mathematics:
Concrete (hands on experience),
Pictorial (use of representations and images)
Abstract (numbers and symbols).



Most lessons begin with an anchor task, a potential real life problem given to students, that provides an opportunity to activate prior knowledge, requires students to collaborate and ask questions of each other. These tasks promote an environment for students to productively struggle and persevere in problem-solving.

Lessons include whole class teaching, partner/group work and individual tasks.

The 'Big Picture' informs children of the learning which will take place in Mathematics throughout the week. It also acts as self-assessment for our students and provides opportunity for pupil voice.

We are continuing to work with the Origin Maths Hub, which provides us with training and Work Group opportunities to further develop our teaching of Mastery Maths.