

Mathematics

What?



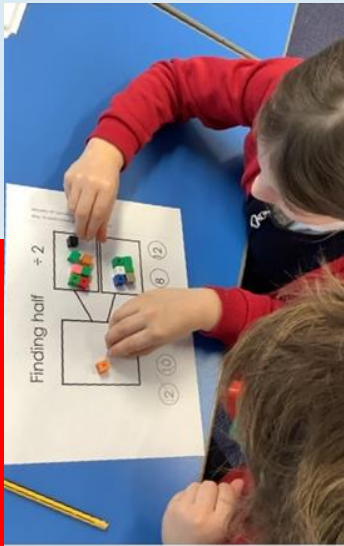
Impact



Intent

At QPS, we aim for all of our children to be confident mathematicians who are able to quickly recall maths facts, reason about mathematical ideas and solve real-life mathematical problems.. Being able to represent ideas in many different ways is a crucial part of 'deep understanding' in mathematics.

Our mathematics curriculum allows children to explore, wonder, question and conjecture. This gives children a secure knowledge and understanding of mathematical ideas. We want children to explore possibilities and experiment with ideas, testing predictions in order to form generalisations. We aim to support our children in developing a growth mind-set and support them in becoming confident mathematicians.



We teach a mastery approach for mathematics and follow the fundamental 'Mathematics Mastery' ideas. The Mathematics Mastery curriculum is cumulative

In maths lessons children are encouraged and enabled to use the correct mathematical vocabulary and communicate ideas effectively

We encourage our children to represent their ideas in different ways in order to develop deeper understanding in Mathematics

- Each school year begins with a focus on the concepts and skills that have the most connections, which are then applied and connected to consolidate learning. This gives pupils the opportunity to 'master maths' by using previous learning throughout the school year. Maths Meetings are used to develop fluency and to apply new learning.

- Our curriculum is designed with language and communication at its heart. Every child at QPS is given the opportunity to develop their mathematical language skills. All children speak in full sentences, using key mathematical words and phrases. Children are encouraged to use daily 'star words'.

- Our pupils are able to build a deep conceptual understanding of concepts which enables them to apply their learning in different situations. We use a concrete - pictorial - abstract approach. Children are encouraged to use a range of apparatus to investigate their ideas and prove their answers.