

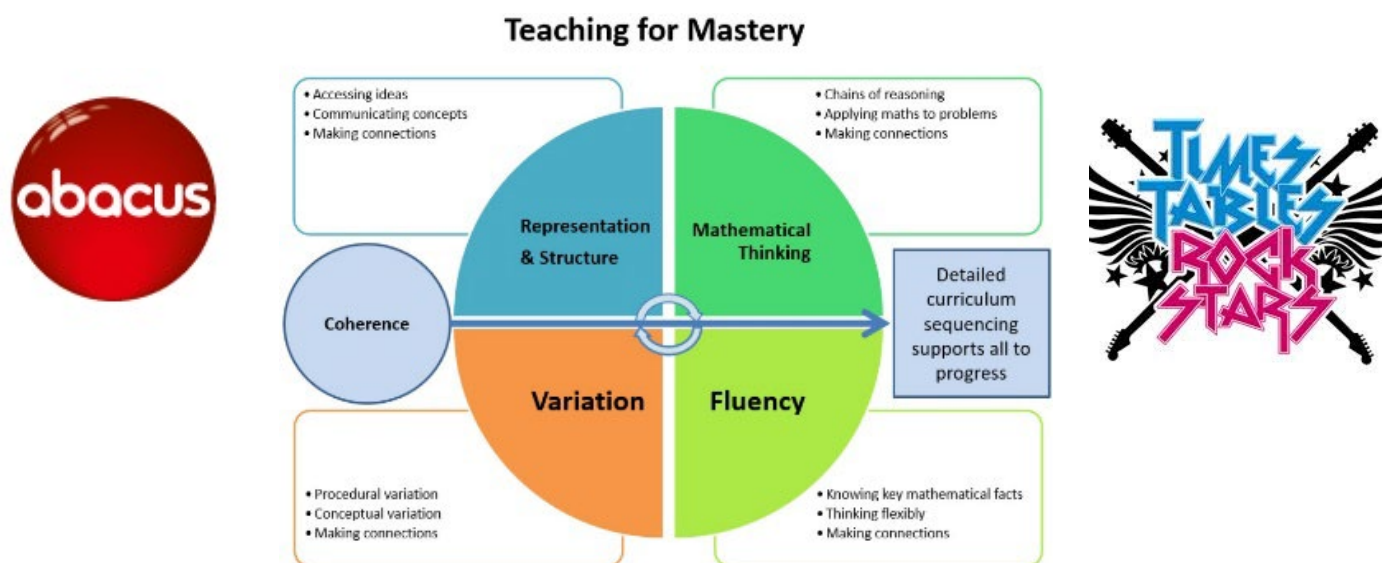


Vision (intent)

Maths is a subject that is valued and understood to be a part of children's everyday life. We aim for all children to leave our school being confidently numerate and able to apply all areas of Maths to problems with deep understanding.

We aim for children to view Maths not in terms of individual concepts but as areas that interlink and can be used to solve problems and explain and reason. Through carefully planned lessons and resources, we ensure high quality teaching and experiences which equip children to utilise their skills across a variety of contexts.

Curriculum (implementation)



Curriculum structure

The curriculum is structured to provide children with the opportunity to learn and retain fluency skills across all areas of Maths. Pupils receive high quality teaching which provides opportunities to apply these fluency skills to solve problems and reason. Mathematical vocabulary is explicitly taught with a clear progression across the school. Concepts are modelled in small steps through familiar pictorial representations and concrete resources. Focused activities involving children working in mixed ability groups, ensures varied and frequent opportunities for exposure to rich mathematical vocabulary. Teachers plan additional retrieval practice activities to allow children to access prior learning from their working and long-term memory.

Abacus maths scheme provides a robust planning framework with clear progression across the year groups. Lessons are adapted to suit each individual cohort with targeted questioning and scaffolding built in to ensure a specific outcome. Understanding of mathematical concepts and procedures is achieved in small steps and underpinned by secure fluency skills and the mastery approach. Learning is deepened by regular and targeted questioning with children required to answer in full sentences using correct mathematical vocabulary.

Across EYFS, KS1 and KS2, concepts are revisited regularly to ensure deep and secure understanding. Concrete and pictorial representations are used before and alongside abstract and formal representation to ensure children understand and can expose the structure of the concept.

Building strong foundations for the years ahead (Matthew 7:24-25)

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Subject Vision Document: Mathematics



A visual journey of every classes' learning is annotated on a class Maths Wall and links between concepts are made explicit. This learning map provides a constant resource for children to refer to and is also used for retrieval practice.

Additional opportunities to apply mastered objectives at a deeper level and across a variety of contexts are provided for all children through a wide variety of resources e.g. NRich, Maths Hub, White Rose and I See Reasoning.

Lesson delivery (Pedagogy)

We have an expectation that all children can succeed in maths, which we achieve through high-quality teaching and strong subject knowledge. Where appropriate, split inputs are delivered with specific focuses and outcomes for target groups. Children are taught through a mastery approach- ensuring high engagement and motivation and a secure and sustainable understanding of mathematical concepts.

We ensure children are fluent in mathematical number facts by rehearsing these systematically at school and at home. Children are engaged and motivated by our Times Table Rock Stars platform which simultaneously provides opportunities for fluency and quick recall whilst being fun and inclusive.

Children who master a concept quickly are expected to deepen their understanding by applying it to solve problems embedded in mathematical investigations or more complex contexts. Children who may struggle to master an objective are supported through same-day intervention, retrieval practice, home resources and targeted support in daily lessons. Weekly pre-teaching sessions in small groups allow children who are at risk of not reaching ARE to receive additional exposure to upcoming objectives, methods and vocabulary.

Assessment

Children's maths is assessed in a number of ways to identify specific areas of need:

- Assessment against National Curriculum objectives is achieved through discussion, observation and questioning during maths lessons, retrieval practice sessions and pre-teaching interventions.
- Maths assessment against year group objectives is recorded on Target Tracker. This is used to inform future planning and, if required, interventions.
- Half-termly and termly maths assessment tests in Year 1 – Year 6 allow teachers to assess their understanding and identify areas for further development via question level analysis.
- Year 2 teachers attend moderation events to standardise their end of key stage judgements and to share good practice.
- Targets for pupils' maths are shared with parents in their termly reports and discussed during Parents' Evenings and in the Annual report to Parents.

Outcomes (Impact – how we measure and evaluate)

The Subject leader regularly monitors the standards in maths in a number of ways including:

- Termly data analysis, including analysis of standards on Target Tracker.
- Children's work
- Pupil conferencing
- Teacher planning
- Lesson observations and learning walks
- Maths Wall displays

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Standards in maths are monitored in variety of ways in addition to the above. Our bespoke assessment system allows us to analyse performance: PITA (Prediction In Time Assessment) data is used to look at standards in each year group and PAT grids (Pupil Attainment tracker) are used to assess the attainment and progress of whole classes and key groups such as girls and boys, children in receipt of PPG, SEND and Prior Attainment groups. Work and planning scrutiny and pupil conferencing also allow us to gauge attainment, engagement and progress in each class and for individual children.

Curriculum enhancement

The Maths Curriculum is further enhanced by providing regular opportunities for outside competitions and events such as: Piggott Maths Challenge and The Keys Academy Trust Maths Challenge. Enrichment days such as the Maths Problem Solving workshops also provide a challenging and fun day for pupils to apply their Maths skills to solve problems. Times Table Rock Stars is an excellent supplement to our curriculum and the children enjoy termly Battle of the Bands competitions against different classes and local and national schools. We are proud to participate in the NSPCC Number Day each year and the pupils love dressing up in maths-related costumes and working collaboratively to solve problems and raise money.

Partnerships

- The Keys Academy Trust
- Piggott School
- Reading Blue Coat School
- Maths Hub
- Abacus
- Times Tables Rock Stars.

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