

**Maths**

**at Sharlston Community School**

**Intent**

At Sharlston, we aim to deliver an engaging maths curriculum, which is vocabulary and representation rich, supporting children to develop their mathematical skills and understanding in order to master the maths curriculum. **Mastering maths means pupils of all ages acquiring a deep, long-term, secure and adaptable understanding of the subject.  The end goal and expectation is for all pupils (with very limited exceptions) to have acquired the fundamental facts and concepts of maths for their year group.** We work with the underpinning belief that all children should have a deep understanding of the mathematics they are learning and be able to apply learnt maths skills to other areas of our SHINE curriculum.

**Implementation**

Pupils in EYFS and KS1 access the NCETM Mastering Number Programme to support children to develop number sense. In KS1 and KS2, core lessons are planned and taught using the NCETM Key Prioritisation Materials and Ready-To-Progress Criteria. Teachers plan small steps to build up confidence and understanding of new mathematical concepts, encouraging children to make connections and see patterns. Vocabulary, variation in representations and sequential learning of concrete-pictorial-abstract strategies form a central thread through all year groups’ teaching and learning.

Alongside daily maths lessons, children take part in daily times table activities in LKS2 and UKS2 (where needed). Children in LKS2 regularly participate in a TTRockstars lunchtime club to retrieve times table knowledge and compete in challenges and competitions.

All children from Y1-Y6 have an additional ‘Maths Missions’ session, where learning is focused on fluency practice, addressing misconceptions and responding to assessment for learning through recent assessment opportunities or practising and retrieving knowledge of their half term’s KIRF (**K**ey **I**nstant **R**ecall **F**act).

Opportunities are built in to explicitly show how maths is used in the wider curriculum and in everyday life. Maths is used to develop our At Sharlston We SHINE attributes such as **H- Have Ambition**; we are raising pupil aspirations by developing an awareness of the vast range of careers available that require maths skills and **N – Never Give Up;** pupils develop growth mindsets and recognise the value of learning from their mistakes and persevering to find solutions to tricky maths problems.

**Impact**

**By the time pupils leave Sharlston Community School in Year 6, we expect the vast majority of our children to:**

* Be fluent in written methods for all four operations, including long multiplication and division, and in working with fractions, decimals and percentages.
* Have deep conceptual understanding and the ability to recall and apply mathematical knowledge rapidly and accurately.
* Reason mathematically by following a line of enquiry, using their knowledge of relationships and generalisations, and justify mathematical language.
* Solve problems by applying their mathematics to a variety of problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.
* Be confident and numerate mathematicians able to tackle real life situations, with the essential mathematical skills and understanding to reach their full potential in life and SHINE!