



VISION

Our vision for excellence at Mauldeth Road Primary School is a safe and healthy learning community, where everyone is happy, excited, challenged and inspired to be a successful lifelong learner.

The Importance of Mathematics

Mathematics equips pupils with a uniquely powerful set of tools to understand and change the world. These tools include **logical reasoning, problem solving skills and the ability to think in abstract ways.**

Mathematics is important in everyday life, many forms of employment, science and technology, medicine, the economy, the environment and development, and in public decision making. Different cultures have contributed to the development and application of mathematics. Today, the subject transcends cultural boundaries and its importance is universally recognised. Mathematics is a creative discipline. It can stimulate moments of pleasure and wonder when a pupil solves a problem for the first time, discovers a more elegant solution to that problem, or suddenly sees hidden connections.

Aims

At Mauldeth Road Primary School we aim to help all children to reach their full potential in mathematics by:

- ◆ developing confidence and competence with numbers and measures - the proficiency of Maths
- ◆ providing opportunities to apply mathematical learning to a range of real-life contexts in mathematics and in other subject areas
- ◆ encouraging the skills required to communicate ideas about mathematics
- ◆ fostering a sense of inquiry and an enthusiasm and enjoyment for the nature of mathematics

◆encouraging an ability to think clearly and logically, with sufficient flexibility of mind, to work independently

◆developing the acquisition of appropriate mathematical language and the ability to describe accurately and unambiguously.

To fulfill these requirements our pupils should:

- have a sense of the size of a number and where it fits into the number system;
- know by heart number facts such as number bonds, multiplication tables, doubles and halves;
- use what they know by heart to figure out answers mentally;
- calculate accurately and efficiently, both mentally and with pencil and paper, drawing on a range of calculation strategies
- make sense of number problems, including non-routine problems, and recognise the operations needed to solve them;
- explain their methods and reasoning using correct mathematical terms;
- judge whether their answers are reasonable and have strategies for checking them where necessary;
- suggest suitable units for measuring, and make sensible estimates of measurements;
- explain and make predictions from the numbers in graphs, diagrams, charts and tables;
- develop spatial awareness and have an understanding of the properties of 2-D and 3D shapes
- use patterns and relationships in mathematics to solve puzzles and problems about numbers and shapes