

## Vision for Mathematics

### INTENT:

At St Paul and St Timothy's we want all our children to have a positive attitude towards maths and to see themselves as confident mathematicians.

We aim to provide our children with an exciting, relevant and challenging curriculum. Through these activities our children will be enthusiastic and confident when using maths in the real world.

### IMPLEMENTATION:

Maths in our school is taught through a daily maths lesson as well as additional basic skills sessions. We deliver lessons that are creative and engaging. We want children to make connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving problems. We intend for our children to be able to apply their mathematical knowledge to science and other subjects.

When introduced to a new concept, all children should have the opportunity to build competency in this topic. The children are encouraged to physically represent mathematical concepts. Objects and pictures are used to demonstrate and visualise abstract ideas, alongside numbers and symbols.

**Concrete** – children have the opportunity to use concrete objects and manipulatives to help them understand and explain what they are doing.

**Pictorial** – children then build on this concrete approach by using pictorial representations, which can then be used to reason and solve problems.

**Abstract** – With the foundations firmly laid, children can move to an abstract approach using numbers and key concepts with confidence.

We operate a fluid grouping system, where the children will be moved as and when necessary in order to meet the needs of the individual child. This grouping will be based on teacher assessment throughout a lesson.

### IMPACT:

The children will

- have a positive attitude towards the learning of mathematics and an enthusiasm for the subject.
- be able to carry out practical activities involving number, measurement, estimation and calculation.
- be able to use money in everyday situations.
- be able to read and record mathematical statements using correct terminology and symbols.
- have an ability to solve problems, to reason, to think logically and to work systematically and accurately.
- have developed an ability to use and apply mathematics across the curriculum and in real life.

A mathematical concept or skill has been *mastered* when a child can show it in multiple ways, using the mathematical language to explain their ideas, and can independently apply the concept to new problems in unfamiliar situations.