



# Arithmetic

## **Intent**

The national curriculum for mathematics states that “*children should become fluent in the fundamentals of mathematics, including through varied and frequent practice. This will allow them to apply this understanding with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.*” Our approach to the teaching of arithmetic reflects this with the aim of equipping our children with the ability to utilise formal calculations with fluency.

## **Implementation**

### **KS1**

GLOW Maths *Mastering Number* is a scheme produced by the Glow Maths Hub in partnership with the National Centre for Excellence in the Teaching of Mathematics (NCETM). It is designed to support children's secure development of good number sense and number concepts, such as number composition. In Years 1 and 2, GLOW Maths *Mastering Number* sessions are taught 4 times a week for around 15-20 minutes a day. Where appropriate, in the summer term of Year 2, this will be replaced with the arithmetic format used in KS2 in preparation of the transition to Year 3.

### **KS2**

In KS2, children have daily opportunities to practise the use of the four main operations within calculations (addition, subtraction, multiplication and division). This is given in the form of a variety of questions for children to complete independently. Following completion and marking, teachers look for patterns of children who require further focused support for specific calculation methods e.g. adding two 4-digit numbers with multiple exchanges. Teachers can then run a follow-up 'focus group' session during the daily arithmetic time with a group of children needing further support. Teachers will model the method, complete group examples and then give children time to complete further questions either independently or with the support of a partner within the group. During the next independent arithmetic session, children have the opportunity to show what they have learnt within their focus group.

## **Impact**

Being exposed to frequent opportunities to practise calculation methods using the four operations and deepening children's understanding of number composition will allow them to become fluent in the fundamentals of mathematics. This will support children in applying these calculation methods and fundamental understanding across their mathematics and wider learning.