

### Curriculum Design & Sequencing of Content

All year groups follow an adapted White Rose Maths scheme, which is a nationally recognised scheme of work that is fully in line with the expectations laid out in the Primary Curriculum. In the Foundation Stage, children's understanding is scaffolded through exploration in real-life play. In all year groups, lesson content is carefully designed to follow the 'mastery' approach to learning, to enable students to develop a secure and 'deep' grasp of both arithmetic skills and reasoning abilities.

### Mastery Approach to Mathematics

All staff across the school work exceptionally hard to teach mathematics using the 'Mastery Approach'. The core principles of this approach ensure children build upon their understanding of methods and skills so that they have a firmer and deeper grasp of how these can be applied in a wide and varied range of contexts. To enable children to develop a depth of understanding, our students learn and develop their skills and knowledge using concrete and pictorial resources before moving on to more abstract concepts.

### Maths Leader

Ann Woodward, co-ordinator for mathematics, is leading our school in its mission to ensure that all children develop a secure understanding and love of the subject through inspiring and challenging lessons.



### Maths at Cropwell Bishop Primary School

The teaching and learning of mathematics is an integral element of the school curriculum and it is taught in classrooms where children are supported, guided and encouraged to achieve their maximum potential in challenging but achievable lessons. Children's understanding of mathematics is deepened and secured through the application of the concept of the 5 Big Ideas (representation and structure; mathematical thinking; fluency; variation; and coherence). Children's understanding of concepts is built and developed through the use of concrete, pictorial and abstract representations, enabling children to gain a greater depth of understanding.

### Number Bonds

At the core of our approach to mathematics is our ambition for all children to become 'number-fluent'. At the very heart of this target is a secure grasp of their number bonds. Our teachers in FS and KS1 work tirelessly to support children in achieving this goal. Children have also been given logins to 'Numbots', a highly motivational online learning platform aimed at improving children's recall of number bonds and addition and subtraction facts.

### Fluency Facts

We have developed a 'Fluency Facts Overview' to ensure that children are revising, recalling, learning and embedding key number facts in order to reduce cognitive load when learning new methods and strategies. We want children to have these facts at their finger-tips. Spending a small amount of time each day recalling and revising previous learning also aids the children in developing long term memory and being secure in component knowledge that underpins their new learning.

### Times-Tables

As children work towards their goal of becoming 'number-fluent', we support pupils to build upon their number bonds and develop a security and efficiency of their times-table recall. Across the school, wide and varied methods are used to support all types of learners. One of our ways of striving to improve speed of recall is to use Times-Table Rock Stars: a highly popular application which allows children to embrace their competitive side!