

## Maths Curriculum Overview

At Blackthorns Primary Academy, we believe that all children are mathematicians. We follow a mastery approach based on the belief that all children can succeed. Fluency, reasoning and problem solving are at the heart of our mathematical teaching and learning.

Mathematics is an essential skill for everyday life supporting understanding and engagement with the wider world. At our academy, we strive to ensure all pupils build a passion for the subject nurturing a sense of enjoyment and curiosity of the power and beauty of maths.

<p><b><u>Intent</u></b> With these aspirations, our <b>INTENT</b> for the maths curriculum is:</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 15%; padding: 5px;"> <p>To ensure all pupils are fluent mathematicians who are confident in the fundamentals of mathematics through varied and frequent practice with increasingly complex problems over time. Pupils will develop conceptual understanding and be able to recall and apply knowledge rapidly and accurately.</p> </div> <div style="width: 15%; padding: 5px;"> <p>To support children with their reasoning so they can explain their mathematical thinking. Children will learn the skills needed to argue and justify their thinking in a mathematical context using mathematical language.</p> </div> <div style="width: 15%; padding: 5px;"> <p>To give children regular opportunities to solve problems through the application of their new maths skills. They will be able to solve problems with increasing sophistication including breaking down problems into simpler steps. To foster perseverance and team work when completing these.</p> </div> <div style="width: 15%; padding: 5px;"> <p>To help the children develop a growth mindset so that they enjoy maths and relish the challenges set. To encourage a curiosity about mathematics and foster confident mathematicians.</p> </div> <div style="width: 15%; padding: 5px;"> <p>To develop links between other curriculum areas including science, computing or P.E..</p> </div> <div style="width: 15%; padding: 5px;"> <p>To teach the children a rich mathematical vocabulary to enable them to reason and explain their mathematical thinking.</p> </div> </div>						
<p><b><u>Implementation</u></b></p>							
<p><b>Planning</b></p>	<p>Blackthorns Primary Academy follows the White Rose scheme of work which forms the long term and medium plan for our curriculum. This is a spiral curriculum so children will revisit an area or topic several times during their primary school career. Each time the topic is revisited the complexity increases building on the secure foundations from the previous year.</p> <p>Although we follow the White Rose scheme, teachers are encouraged to spend as much time as is needed on the small steps within each block so the children have a deep understanding before moving on.</p>		<p><b>Recording</b></p>	<p>We record our maths learning in a variety of ways. Maths books are used primarily to showcase their mathematical journey and will be recorded in almost every day. They also use fluency books where children complete their fluency challenges. We take photos of outdoor maths and practical activities as well as problem solving. There are also displays of maths work around the school. Recording also</p>		<p><b>Assessment</b></p>	<p>Formative assessment takes place in every lesson and helps the teacher gauge how quickly they should progress through the content of the lesson. Teachers look at the children's independent work every day to check for understanding and this is further supported by the children's self- assessment so that the teacher knows how the children are feeling about their new learning. We use Sonar to record this progress assessing against each of the curriculum statements. White Rose assessments are carried out</p>

The school follows a CPA (concrete, pictorial, abstract) approach so all topics are taught practically before moving onto pictures and drawing out ideas and then the abstract number sentences.

takes place using maths assessments and in times tables and number facts quizzes.

each term to monitor how children are progressing in each topic away from the point of learning. National assessment also takes place in Year 6 SATs and Year 2 end of key stage assessments. Year 4 take part in the Multiplication Tables Check.

### EYFS

Our children in Early Years follow the White Rose scheme. The learning in this year group is very practical and discussion based. The children have rich opportunities to experience maths in many forms and environments.

### SEN

#### **Quality first teaching supports all children to achieve.**

We believe that all children can succeed in maths. Children with SEN will be supported as needed within each maths lesson. Lessons will be carefully designed to remove barriers. Teachers and TAs will be aware of ILPs and class support plans and will ensure that every child is enjoying and achieving in their maths lessons.

### Impact

We believe that every child has the potential to become a confident and successful mathematician at Blackthorns Primary Academy. During their time here, the children will develop their fluency and learn how to reason and problem solve effectively and efficiently. Using these skills to solve real life problems will help them succeed with mathematical challenges in the future including reasoning, thinking logically and working systematically and accurately. We believe our children will acquire an enjoyment and love of maths, developing a positive attitude. At Blackthorns Primary Academy, we will help children develop the tools they need so they are ready for the challenges of secondary school and beyond.