



Four Swannes Primary School

# Intent, Implementation and Impact of Maths

## Intent

At Four Swannes Primary School, we believe mathematics is an important part of children's development throughout school, right from an early age.

We intend on delivering a curriculum which:

- Allows children to be a part of creative and engaging lessons that will give them a range of opportunities to explore mathematics following a mastery curriculum approach.
- Gives each pupil a chance to believe in themselves as mathematicians and develop the power of resilience and perseverance when faced with mathematical challenges.
- Recognises that mathematics underpins much of our daily lives and therefore is of paramount importance in order that children aspire and become successful in the next stages of their learning.
- Engages all children and entitles them to the same quality of teaching and learning opportunities, striving to achieve their potential, as they belong to our school community.
- Makes rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems.
- Provides equal opportunities for children to apply their mathematical knowledge to other subjects (cross-curricular links).
- Is in line with the expectations in the National Curriculum 2014.

## Implementation

Our Maths curriculum is designed to develop children's knowledge and understanding of mathematical concepts from the Early Years through to the end of Y6.

### **Teaching and Learning, Content and Sequence**

- In school, we follow the national curriculum and use the 'White Rose Maths plans' as a guide to support teachers with their planning, teaching and assessment.
- The calculation policy is used within school to ensure a consistent approach to teaching the four operations over time.



- At the start of each new topic, key vocabulary is introduced and revisited regularly to develop language acquisition, embedding as the topic progresses.
- All units of Maths begin with integral assessment activities to support the teacher's delivery of an appropriate pitched series of lessons.
- Children are taught through clear modelling and have the opportunity to develop their knowledge and understanding of mathematical concepts.
- All lessons incorporate the use of manipulatives, pictures, words and numbers to help children explore and demonstrate mathematical ideas, enrich their learning experience and deepen understanding at all levels.
- Children move through the different stages of their learning at their own pace.
- Children who have shown their understanding at a deep level within the unit, will have opportunities to apply these skills in a GREATER DEPTH activity. This should be challenging and ensure that children are using more than one skill to be able to answer the mathematical problems.
- Reasoning and problem solving are integral to the activities children are given to develop their mathematical thinking.
- Resources are readily available to assist demonstration of securing a conceptual understanding of the different skills appropriate for each year group.
- Children are encouraged to explore, apply and evaluate their mathematical approach during investigations to develop a deeper understanding when solving different problems/puzzles.
- A love of maths is encouraged throughout school via links with other subjects, applying an ever-growing range of skills with growing independence.
- Children with additional needs are included in whole class lessons and teachers provide scaffolding and relevant support as necessary. For those children who are working outside of the year group curriculum, individual learning activities are provided to ensure their progress.
- Home-learning activities set closely link to the learning foci in maths being taught in class that each week.

### **Leadership, Assessment and Feedback**

- Assessments inform the journey and pace through the teaching and learning sequence.
- Verbal Feedback is given on children's learning in line with our feedback policy. Formative



assessment within every lesson helps teachers to identify the children who need more support to achieve the intended outcome and who are ready for greater stretch and challenge through planned questioning or additional activities.

- In order to support teacher judgments, children (Y1-Y6) are assessed at the end of each unit using the White rose Maths End-of-block assessments to check progress and identify gaps in knowledge and understanding. The areas of misconceptions can be identified, and common areas of need targeted through future teaching activities.
- The children are assessed termly using the White rose Maths End-of-term assessments for a more summative view of where children are succeeding and where they may need more support. Parents are kept informed of the children's performance through parents evening and the end of year report.
- The maths leader has a clear role and overall responsibility for the progress of all children in maths throughout school. Working with SLT, key data is analysed and regular feedback is provided, to inform on progress and future actions.

## Impact

- Children demonstrate a quick recall of facts and procedures. This includes the recollection of the times table.
- Children show confidence in believing that they will achieve.
- Each child achieves the objectives (expected standard) for year group.
- The flexibility and fluidity to move between different contexts and representations of maths.
- The chance to develop the ability to recognise relationships and make connections in maths lessons.
- Mathematical concepts or skills are 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.
- Children show a high level of pride in the presentation and understanding of the work.
- Our school standards are high as we moderate our books both internally and externally and children are achieving well.
- Each child values the additional learning opportunities that their home- learning tasks offer to develop their mathematical skills and confidence.