



# St Hugh of Lincoln RC Primary School



## MATHEMATICS

### Intent

At St Hugh of Lincoln, we love Maths! We understand the essential part mathematics plays in the education of our pupils. It is important that a positive attitude towards mathematics is encouraged amongst all our pupils in order to foster self-confidence and a sense of achievement.

Mathematics is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. A high-quality mathematics education equips pupils with a uniquely powerful set of tools to understand and change the world. These tools include logical reasoning, problem solving skills and the ability to think in abstract ways.

We aim to spark curiosity, excitement and a love for maths learning while instilling confidence and knowledge in children as they embark on their journey as mathematicians, becoming deep thinkers, problem solvers as they master the maths curriculum and relish the challenge of maths. We believe that all children should be encouraged to believe that by working hard and not giving up they can succeed in maths. We believe that everyone can do Maths!

Maths is the foundation for understanding the world and we want our children to know the purpose behind their learning and apply their knowledge to their everyday lives.

### Implementation

The National Curriculum for Mathematics aims to ensure that all pupils:

- become **fluent** in the fundamentals of mathematics
- **reason mathematically** by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument using mathematical language
- can **solve problems** by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication.

At St Hugh of Lincoln we recognise that for all children to master the Maths Curriculum, we need to ensure consistent coverage. Teachers follow the White Rose Overview/Long Term Plan in each year group and use a range of high quality resources to supplement the White Rose Scheme such as Master the Curriculum, Primary Stars, Corbett Maths, Times Tables Rockstars, Numbots, Nrich and NCETM. These resources aim to support, stretch and challenge all children within the classroom. The Overviews/Long Term Plans are reviewed/ adjusted throughout the year according to the need of each year group. Throughout the year, teachers will recap on previous learning and identify gaps in learning using the DFE Ready to Progress criteria and the White Rose National Curriculum progression document. In addition, the school's calculation policy is used to ensure a coherent approach to teaching the operations across the school.

Our curriculum builds on the concrete, pictorial, abstract approach. By using all three, the children can explore and demonstrate their mathematical learning. Together, these elements help to cement knowledge so children truly understand what they have learnt and therefore can apply their knowledge.

At St Hugh of Lincoln RC Primary School, we acknowledge that the development of mathematics is underpinned for each child by a sense of enjoyment, confidence and curiosity.

We aim to help all children to reach their full potential in mathematics by:

- Developing their confidence and competence with numbers and measures.
- Providing opportunities to apply their mathematical learning to a range of real-life contexts in mathematics and in other subject areas.
- Develop independence of thought.
- Fostering a sense of enquiry and an enthusiasm and enjoyment for the nature of mathematics.
- Increase the awareness of appropriate mathematical language.

To fulfil these requirements our pupils should:

- Have a sense of the size of number and where it fits into the number system
- Know by heart number facts such as number bonds, multiplication tables, doubles and halves
- Use what they know by heart to figure out answers mentally
- Calculate accurately and efficiently, both mentally and with pencil and paper, drawing on a range of calculation strategies

- Make sense of number problems, including non-routine problems, and recognise the operations to solve them:
- Explain their methods and reasoning using correct mathematical terms
- Judge whether their answers are reasonable and have strategies for checking them where necessary
- Suggest suitable units for measuring, make sensible estimates of measurement
- Explain and make predictions from the numbers in graphs, diagrams, charts and tables

These aims are consistent with our school philosophy and take account of the New National Curriculum.