

Mathematics @ Raughton Head Church of England Primary School and Nursery

"A high-quality mathematics education provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject." Department for Education, 2013.

Intent

Mathematics is integral to all aspects of life and with that in mind we endeavour to ensure that children will develop a positive and enthusiastic attitude towards mathematics. Mathematics equips pupils with a unique set of tools that allows them to understand the world in which they live. The National Curriculum Mathematics Programme of Study describes what pupils must learn in each year group. Within our mathematics lessons, we ensure continuity, progression and high expectations for attainment in mathematics. We are committed to ensuring that all pupils achieve mastery in the key concepts of mathematics so that they have a strong understanding of these areas before they progress with their mathematical learning.

Through the teaching of maths, we intend to develop:

- A positive attitude towards mathematics and an awareness of the relevance of maths in the real world
- Fluency of key skills
- An ability to solve problems and think logically in order to work systematically and accurately
- Capability to work both independently and with others
- Enquiry, experiment and reasoning
- Confidence in maths knowledge
- An appreciation of maths as an integral part to all aspects of life

Implementation

We aim to provide children with a high-quality mathematics education that provides a foundation for understanding the world; the ability to reason mathematically; an appreciation of the beauty and power of mathematics; and a sense of enjoyment and curiosity about the subject. We also aim to provide a stimulating environment with abundant resources so that pupils can develop their mathematical skills to the full.

We endeavour to set work that is challenging, motivating and appropriate to each individual child. The curriculum meets the needs of all children, including disadvantaged and SEN. Additional enrichment opportunities are provided for pupils to further develop mathematical thinking, e.g. Cluster school Maths days and Maths challenge days at local secondary schools. Maths is taught daily and discretely. Lessons usually last for around 60 minutes each day in KS1 and KS2.

Hamilton Trust planning is used in all classes to ensure the continuity of mathematics teaching across our school. Pupils build on their basic maths skills and progress to solve reasoning problems, demonstrating they can employ skills in different scenarios. Children work towards a mastery of mathematical concepts, often being able to communicate their understanding in an array of different ways. Activities are differentiated as appropriate and the mathematics curriculum is regularly made relevant to curriculum subjects. The use of Hamilton Trust planning ensures areas are taught and re-visited across the year, allowing children to develop and progress their learning. This also allows for children to consolidate their learning regularly.

Impact

The impact of our mathematics curriculum is measured throughout the year using Scholarpack and Curriculum Maestro assessments. Curriculum coverage is checked throughout the year against the yearly plan and attainment is tracked on individual target sheets that are linked directly to the curriculum strands. Children regularly self-assess their work so that attainment can be celebrated and misconceptions addressed during lessons. Assessments inform our intervention support and higher-level teaching assistants support the progress of all children. Work scrutiny demonstrates high quality of work. During their time at our school, children talk enthusiastically and confidently about mathematics and can apply their skills to problems across the curriculum.