

Maths – Delph Side Community Primary School

To ensure all children **enjoy** their learning and attending school.

To provide opportunities for children to **embrace** learning through real life, hands on experiences.

To prepare children to **evolve** into the next stage of their schooling.

Intent

At Delph Side Community Primary School, we recognise that Mathematics is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment.

We aim to provide a high-quality mathematics education with a mastery approach so that all children:

- become **fluent** in the fundamentals of mathematics;
- **reason mathematically**;
- can **solve problems** by applying their mathematics.

(National Curriculum 2014)

When taught to master maths, children develop their mathematical fluency without resorting to rote learning and are able to solve non-routine maths problems without having to memorise procedures. We intend to develop 'Maths Confident' learners who enjoy mathematics lessons and are keen to embrace challenges building their resilience and ability to think mathematically.

Implementation

In Reception, we follow the White Rose Maths scheme to develop early number skills and number sense. Children are introduced to mathematical concepts through quality adult led teaching which is then enhanced through the continuous provision. Adult led inputs are whole class and teachers are aware of individual needs that may require further challenge or support. This small steps approach stands the children in good stead as they progress through their Maths Mastery journey in school.

In Years 1 – 6, Teachers use Maths No Problem to plan and deliver the content of the curriculum. This focuses on using a Concrete Pictorial Abstract (CPA) approach to teaching and learning. Pupils will explore in the first instance using concrete materials progressing through to pictorial representations and finally have the ability to complete the abstract mathematics involved. Having the ability to draw on the concrete and pictorial elements allows pupils to access the abstract elements with increasing ease and fluency. Pupils are encouraged to 'explain' their reasoning mathematically where possible.

Teachers extend learning by planning Captain Reason extension questions which are woven throughout lessons and offer challenge to consolidate.

Impact

Our mathematics curriculum is based upon 'Maths No Problem' resources which are fully supported by the Department for Education as they meet the requirements of the new curriculum. The Maths No Problem primary school series has been created specifically for children living in the UK and is fully aligned to the 2014 curriculum. It provides all the elements that teachers need to teach Maths Mastery with confidence and encourage children to talk using maths language.

We measure our impact of our curriculum through the following methods:

A reflection on skills achieved against the planned outcomes.

Pupil discussions about their learning; which includes discussion of their thoughts, ideas, processing and evaluations of work. (PAQ)

Learning Walks

Book Scrutiny

Deep Dive Leadership days

Staff Attitudinal Questionnaire.