



Maths

Curriculum Intent, Implementation & Impact

Intent

At Kiwi Primary School, we are committed to providing our children with a curriculum that has a clear intention and impacts positively upon their needs. Our intention is for every child to develop a sound understanding of Maths, equipping them with the skills of calculation, reasoning and problem solving that they need in life beyond school. These strands are revisited repeatedly during children's time in school to ensure that the learning is embedded and understanding is successfully developed. We intend for all pupils to become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time. We aim for all pupils to solve problems by applying their mathematics knowledge to a variety of routine and nonroutine problems with increasing sophistication.

Implementation

At Kiwi Primary School, we follow the Primary National Curriculum, which provides detailed guidance for implementation and ensures continuity and progression in the teaching of mathematics. In early years, the curriculum is guided by the early years foundation stage curriculum. We use the White Rose Maths Curriculum as the vehicle for delivering the National Curriculum objectives.

At Kiwi, we use a variety of teaching and learning styles in mathematics lessons. Our aim is to develop children's knowledge, skills and understanding in mathematics.

We do this through a daily lesson that has a mix of whole-class and group teaching. During these lessons we encourage children to ask as well as answer mathematical questions. They have the opportunity to use a wide range of resources such as number lines, number squares, digit cards, place value counters, diens and small apparatus to support their work appropriate to their age and ability level.

All lessons follow 10 basic principles:

- Review previous knowledge- Children to recap learning.
- New learning to be presented in small steps.
- Ask a large number of questions to encourage thinking and discussion.

- Provide models and representations.
- Guided student practice – variation in question type.
- Check for understanding throughout.
- Provide scaffolds for difficult tasks- In place when needed, remove when not.
- Require and monitor independent practice.
- Engage children in daily, weekly and monthly reviews- (Flashback 4/ Big Maths)

In all classes there are children of differing mathematical ability. We recognise this fact and provide suitable learning opportunities for all children by matching the challenge of the task to the ability of the child. We achieve this through a range of strategies- in some lessons through differentiated group work and in other lessons by organising children to work in pairs for open ended problems. We use classroom assistants to support targeted groups and provide in situ feedback to ensure that work is matched to the needs of the children.

Impact

The implementation of this curriculum ensures that when children leave Kiwi Primary School, they are competent mathematicians. The impact of our mathematics curriculum is that children understand the relevance and importance of what they are learning in relation to real world concepts. Children know that maths is a vital life skill that they will rely on in many areas of their daily life. Children have a positive view of maths due to learning in an environment where maths is promoted as being an exciting and enjoyable subject in which they can investigate and ask questions; they know that it is reasonable to make mistakes because this can strengthen their learning through the journey to finding an answer. Children are confident to 'have a go' and choose the equipment they need to help them to learn along with the strategies they think are best suited to each problem.