

Intent:

Mathematics is a creative and highly interconnected discipline that has been developed over centuries, providing the solution to some of history's most intriguing problems. It is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. Therefore, at Shears Green Junior School, we aim to deliver a high-quality mathematics education, which 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. Through our lessons children become fluent in maths, be able to reason mathematically and solve problems by applying their understanding of mathematics. The structure of the mathematics curriculum across school shows clear progression in line with age related expectations and provides opportunities to use the learning in other subject areas.

Implementation:

Maths lessons are loosely based on the White Rose Schemes of work, which can be supplemented with resources from, Rising Stars, White Rose Premium Resources, Classroom Secrets (based on the White Rose Schemes of work) and Maths Frame, as well as other appropriate resources, such as NRICH, Test Base, TT Rockstars and Twinkl. Calculations are taught following the Calculation Policy, which can be found in the Maths Google Team drive. Weekly arithmetic tests are completed to develop fluency.

1. Each maths lesson is to start with quick questions and a reasoning question, using the common Smart board format, found in the Maths Google Team drive. Quick questions are based upon gaps from previous week's arithmetic tests.
2. Children to chant times tables - based upon gaps from TT Rockstars, or 77 club.
3. Introduce the concept you are teaching, focussing on mathematical language, reasoning and process.
4. Model and provide example questions, including opportunities for formative assessment.
5. Children complete Rising Stars, White Rose, Classroom Secrets and Maths Frame activities, or other appropriate activities - ensuring that pupils develop fluency, reasoning and problem solving skills.
6. Go through answers and provide feedback, address misconceptions, or tackle questions that deepen/consolidate understanding.
7. Review the lesson, focussing on reasoning and mathematical language.

Impact:

Our maths curriculum is high quality, well-structured and is planned to demonstrate progression. The components of the teaching sequences demonstrate good coverage of fluency, reasoning and problem solving. 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 and are proud of their achievements, 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. Children are confident to 'have a go' and choose the strategies they think are best suited to each problem. They know that it is reasonable to make mistakes because this can strengthen their learning. Our feedback and interventions support children to strive to be the best mathematicians they can be, ensuring a high proportion of children are on track or above. The impact of the curriculum can be measured through tracking of knowledge from formative assessments, regular summative assessments, weekly 'book looks', pupil voice and pupil/teacher discussions about their learning.