

Maths Curriculum Vision

Intent

Courage, Creativity and Commitment are three of our key values at Kiveton Park Meadows Junior School and can be found in abundance at the heart of our maths curriculum. We believe in providing challenge and ownership to all learners and this is reflected in the design of our maths curriculum. We understand the importance of mathematics in everyday life and, with this in mind; we aim to provide a curriculum that will build on previous knowledge in order to develop an individual's ability to solve problems whilst working systematically and accurately. Through the programmes of study in the National Curriculum, children will build on prior knowledge and new mathematical concepts are taught using White Rose Maths. This allows us to link to Kiveton Park Infants where many of our pupils start their Maths journey. Arithmetic and basic maths skills are practised in our Daily Workouts to ensure key mathematical concepts are embedded. In all year groups, we offer a challenge-based learning environment, where children are encouraged and supported to master the subject with no limits set. This allows children to take responsibility for their own learning journey and have ownership of their progress, promoting reflection and motivation whilst developing maturity and confidence. In year 6, maths has its own curriculum design that is built on retrieval practice and arithmetic strategies to secure key objectives before progressing to reasoning and problem solving. In all Year groups we have a 'low threshold' and 'high ceiling' concept where all children can access our curriculum whilst there is no limit to how far each pupil can progress in each and every lesson.

Implementation

Our curriculum is based on White Rose Maths. The White Rose Maths resources enable us to deliver a comprehensive and coherent curriculum that builds a solid foundation for our students. With its focus on mastery, problem-solving, and conceptual understanding, White Rose Maths empowers our teachers to inspire a love for mathematics in every student.

Our commitment to excellence is reflected in the way we use White Rose Maths to tailor lessons, ensuring each child progresses at their own pace. This approach not only fosters a deep understanding of mathematical concepts but also encourages resilience and a growth mindset.

Our teachers are enthusiastic about Maths and promote a positive attitude towards learning and developing mathematical skills. Maths lessons at KPMJ are built on a shared understanding of the importance of feedback and lessons are consistently adapted to meet the needs of our learners. High quality curriculum materials are used to support classroom teaching.

Concrete and pictorial representations of mathematics are chosen carefully to help build procedural and conceptual knowledge together.

We move through the curriculum in small steps allowing all children to master the objectives and provide deeper learning opportunities. Children are provided with a variety of tasks to deepen their learning and enhance their reasoning and problem solving skills. We value the impact of a blocked curriculum and use a range of retrieval practice strategies to ensure retention of previous learning.

Lesson Design

Our lesson design aims to provide a consistent routine within lessons:

- o Daily Workout covering operations and recap of previous learnings to embed
- o Starter Activities
- o Main Teach
- o Learning Activities
- o Reflection on learning and marking

Assessment

Assessment and feedback is an important aspect within the design of our maths curriculum.

Children are included in the lesson assessment process and are given the opportunity to reflect on the progress that they have made. Live marking is provided so that children can celebrate success in Maths whilst understanding the feedback on areas yet to be mastered. Children also complete an end of unit reasoning and arithmetic assessment to track their progress and see their progress throughout the year. During the teaching of new concepts, other low stake assessment strategies are used to inform our live feedback and marking.

Impact

Our maths curriculum shows clear progression of skills as children move through school. It will provide children with the opportunity to build on their prior knowledge whilst building their resilience and confidence. Children will be engaged and enjoy learning in a challenge based environment where they can actively take part in lessons. Children can confidently use different representations of mathematical concepts and are confident to talk about their maths learning. Assessment is effective and the use of monitoring ensures all children are supported. Longer term is the assurance that KPMJ Maths learners gain and secure the tools and knowledge to progress to Secondary levels and beyond.