

Mathematics is undoubtedly one of the most interesting subjects pupils will experience. Some people perceive maths to be a set of rules and procedures to learn and apply however here at The Rose School we believe it to be more about understanding patterns, relationships and exploring connections.

Intent

We believe that all pupils have the potential to enjoy and even love maths. With good teaching coupled with a sensitive and inquisitive approach to understanding their journey so far, we can move all pupils on in their confidence with and their love of maths.

We want pupils to acquire a deep, long-term, secure and adaptable understanding of the subject. In order to do this, our pupils will be taught to: rapidly and accurately recall and apply facts and concepts; develop a growing confidence to reason mathematically; and develop the ability to apply maths to solve problems.

We believe that all good Mathematicians refine and edit their work, so we want our pupils to respond appropriately to feedback provided by staff and develop independence in being able to identify their own areas for improvement.

We do not put ceilings on what pupils can achieve in Mathematics and we do not hold pre-conceptions about any pupils' ability to make progress.

Implementation

The Mathematics curriculum is based on Kangaroo Maths, this curriculum was chosen as it caters for the eleven years of KS1 to KS4 and therefore there is a programme and clear progression for every child no matter what their prior experience or knowledge. Each unit is taught according to one section of the curriculum progression map, with a focus that each lesson needs to cater for multiple abilities and that over the unit repetition is achieved by varying the way in which the same concepts are practised.

Classroom teaching involves the use of scaffolded tasks that build in a variety of ways to work mathematically with contextual Mathematics embedded throughout. Scaffolding activities have the potential to remove barriers to learning for all pupils within the class which therefore reduces the levels of frustration and anxiety felt by the pupils at The Rose School.

At The Rose School, we use Doodle Maths to engage students in Mathematics. Doodle builds confidence and ability in maths by creating every child a personalised work programme, based on a baseline assessment, tailored to their strengths and weaknesses. Doodle automatically targets each child's learning gaps and consolidates their knowledge, ensuring progression through the curriculum and removing the need for setting differentiated work. It is recommended that pupils use Doodle for at least 10 minutes a day, this can be accessed in

school or at home on a variety of devices. Within school, pupils have the opportunity to access Doodle in tutor time, intervention and Mathematics lessons (accompanied by high quality teaching).

Assessment takes place towards the end of each unit so that there is time to re-teach any concepts that are poorly understood. The three graded outcomes in each task provides the opportunity to track personal progress over their education, regardless of their pace.

Impact

- Pupils confidence, enjoyment and love of Mathematics will be improved over the course of their education
- Pupils of all abilities will be able to succeed in all Mathematics lessons because work will be appropriately scaffolded
- All students leave numerate in Mathematics that is essential for life
- All pupils will have their learning recognised with a qualification in Mathematics through either a GCSE, Functional Skills or Entry Level Certificate qualification

Qualification Pathways

At The Rose School, we believe that all students should have their learning recognised with a qualification in Mathematics. We offer a broad range of qualifications to ensure each student is fully equipped for the next step of their educational journey. After accessing career guidance and open evenings within school, our students can identify the career paths they wish to take and can complete the qualifications required to follow their chosen career paths. These qualifications may include Entry Level Certification, Functional Skills Levels 1 and 2 and GCSE Mathematics.

Entry Level Certificates

Entry Level Certificates are nationally recognised qualifications that give students the opportunity to achieve a certified award. The assessments are designed to inspire and motivate students, providing an appropriate stretch and challenge whilst ensuring that the assessment and content are accessible to Entry Level students. Entry Level students will develop the skills to become fluent in the fundamentals of Mathematics, reason mathematically and solve problems by applying their Mathematics to a variety of routing problems.

Functional Skills

Functional Skills Mathematics qualifications are designed to give learners the skills to operate confidently, effectively and independently in education, work and everyday life. The aims of these qualifications are to develop learner understanding and skills in selecting, analysing, interpreting and communicating information.

GCSE

The GCSE Mathematics examination is provided by AQA, this qualification is designed to enable students to engage with, explore, enjoy and succeed in maths. The subject content is organised into broad topic areas: Number, Algebra, Ratio and proportion, Geometry and measures, Probability and Statistics. This specification is designed to be taken over two years with all assessments, three examinations, taken at the end of the course.