

MATHEMATICS

Intent

At Roundwood School and Community Centre we recognise that maths is part of everyday life and a key skill to support our students' throughout their lives. Our intent is to empower our cohort with a student-centred, cohesive and accessible curriculum, leading to a mathematics qualification which will support their future goals. We want our students to develop an enthusiastic and positive attitude towards mathematics that will stay with them.

We aim to develop children's ability to share, discuss and explain their thinking using appropriate mathematical vocabulary.

We hope that with our individual guidance and attention coupled with a differentiated learning journey from Year 7 to 11, students will become reflective learners which enables them to have advanced life skills and achieve their educational goals.

Implementation

Our policies, resources and schemes support our vision and clearly outline where maths can be applied across different curriculum areas. Key knowledge and skills are also revisited regularly allowing repetition to embed learning.

In Key Stage 3 we primarily follow schemes of work available through White Rose Maths which is supplemented with practical activities to reinforce learning and continue from Key Stage 2 learning and address any deficits in learning.

The areas of maths covered within this scheme include number, geometry, algebra, statistics, ratio and functional maths. Children are regularly taught problem-solving skills and given the opportunities to apply these to real-life contexts. In addition to daily maths lessons, we deliver individual intervention tasks involving number, sequences, place value, times tables, mental maths, using four operations (+, -, /, x) to fill in any learning gaps our students may have.

In Key stage 4 the Maths qualification follows the same pathway as English and based on our students particular needs they will either follow the GCSE or Functional Skills pathways which are detailed below:

GCSE Maths - AQA

The GCSE course is built to enable students to :

- develop fluent knowledge, skills and understanding of mathematical methods and concepts;
- acquire, select and apply mathematical techniques to solve problems;
- reason mathematically, make deductions and inferences, and draw conclusions
- comprehend, interpret and communicate mathematical information in a variety of forms appropriate to the information and context.

Functional Skills Maths Level 1 / 2 – AQA

The Maths Functional Skills qualifications are designed to

- develop the learner's ability to represent situations using mathematics,
- analyse calculations, solve problems and interpret mathematics to explain situations.
- They're assessed in a single, external test.

Our feedback policy, assessment systems and use of individualised targets support the children to progress and become confident and fluent mathematicians.

Impact

We aim for all our Students to achieve at least a Functional Skills qualification and some will receive a GCSE in order to support them in their future goals.

All our Students will meet their individual targets. They will have a good understanding of their strengths and targets for development in maths and what they need to do to improve.

Our students will be able to understand the relevance and importance of what they are learning in relation to real world concepts. The students will leave Roundwood School with a positive approach to mathematics and an understanding of how maths skills can be used in their everyday lives.

Student voice:

"My favourite subject is Maths because I am more confident with numbers." -
Year 10 EAL student