



**Millthorpe
School**

**“In its own
way, pure
mathematics
is the poetry
of logical
ideas.”**

Albert Einstein

MATHEMATICS

KS3 SUBJECTS ON A PAGE

OUR AIMS AND INTENTIONS

To instil a belief that everyone can be successful lifelong mathematicians and that making mistakes is a valuable opportunity for new learning.

CURRICULUM KNOWLEDGE

The curriculum in Maths allows students full access to the National Curriculum through the study of: Working mathematically; Number; Algebra; Ration, Proportion and Rates of Change; Geometry and Measures, probability and statistics.

SUBJECT SPECIFIC SKILLS

- Develop fluency
- Reason mathematically
- Solve problems

IMPLEMENTATION

- The Maths KS3 overview and unit overviews are written and regularly reviewed with subject staff. Faculty

meetings focus on pedagogy and resources that develop long term retention and challenge.

- Regular reviewing of challenge with our feeder primary schools to ensure that Y7 learning builds on, rather than repeats, KS2.
- Lesson by lesson resources are shared on the M drive and regular QA by HOF is built in to ensure quality.
- Re-call of knowledge is supported via the interleaving of topics through starter tasks, homeworks and end of unit assessments. Starter tasks re-visit the weaknesses identified from previous lessons.
- Formal feedback is given at least once per half term in knowledge organisers and identifies strengths and areas for development and includes a comment on progress after each KAP

MATHS IMPLEMENTATION OF THE WIDER MILLTHORPE CURRICULUM:

RESPECTFUL	RESPONSIBLE	READY
■ Engage positively with problem solving activities. ■ Strive to be successful in multi staged questions. ■ Providing well planned peer assessment to support the learning of others.	■ Aiming high in Maths ATL. ■ Aspiring to the 'gold/ thinking harder challenges' in lessons. ■ Engaging positively with assessments to identify next steps. ■ Use R for reflection time for personal improvement.	■ Quick mental calculations. ■ Financial capability; budgeting/VAT/ interest rates. ■ Real life problem solving tasks. ■ Regular links to future pathways that include Maths.

INTENDED IMPACT

- The KS3 curriculum meets the requirements of the National curriculum.
- Pupils have the necessary numeracy skills for the next stage in their learning.
- Regular formal assessments are completed which are used to diagnose where the gaps in learning are

- and allow these gaps to be targeted for improvement in subsequent lessons.
- Student's R for reflection responses demonstrate that all pupils use their assessments to advance their learning.