



## **Maths Curriculum Intent:**

The Maths curriculum intends to ensure every student has the opportunity to reach their mathematical potential. We try and create students who are; resilient, aspirational, problem-solvers, logical, creative and independent. We want our KS3 students to feel successful in their maths lessons and have a broad and secure knowledge of the curriculum from which to progress through their KS4 courses without large gaps in their knowledge. We want our students to appreciate the history of maths so they can understand links to other cultures and other disciplines. We want students to be confident enough to ask questions, make mistakes, evaluate their work and improve. At KS4 we build on this strong base and lead our students to more in-depth maths whilst retaining an ability appropriate curriculum that allows students to be successful. We want KS4 students to further develop their independence and ability to solve problems on their own. We aim to create KS5 students that develop more maturity in their work and learn to derive mathematical principles through proof, algebra, and clear mathematical communication. Maths at Wilsthorpe aims to help create valuable members of society who are hard-working, engaged, inquisitive adults that can apply their maths knowledge in the future.

## **Maths Curriculum Implementation:**

Every student is given an opportunity to reach their potential through the various programmes we offer.

**KS3**-Mastery SOL are followed with nurture students following a reduced SOL that reinforces the basics principles. The main SOL offers hierarchical objectives that challenges students of all abilities. Students showing improvements in ability, or needing more support, can change sets with a minimum of disruption. Regular formative assessment informs future teaching and termly summative assessment measures the learning that has taken place over time. Problem solving questions feature heavily within lessons and we hold termly NRICH sessions where we focus on the skills needed for effective and resilient problem solvers. We discuss prominent historical mathematicians and link their findings to real-life situations - this is complemented by visits to Bletchley Park.

**KS4**-Knowledge is built upon from KS3 and students follow one of two ability pathways with opportunities to change course throughout KS4. Independent learning programmes such as DrFrost, PinPoint Learning and Maths Effect feature more heavily with students taking more control over the work they complete outside of lessons.

**KS5** students further build upon these prior experiences with AS and full A-Level pathways offered for Mathematics and Further Mathematics. Independent learning is made available through ASMP.

