

# Mathematics Curriculum Intent

## KS3 & 4 Intent Statement

The Mathematics department at Colne Primet Academy aims to ensure that all pupils:

- become fluent in the fundamentals of Mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- can reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language.
- can solve problems by applying their mathematics to a variety of routine and nonroutine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.
- can communicate, justify, argue and prove using mathematical vocabulary.
- develop their character, including resilience, confidence and independence, so that they contribute positively to the life of the school, their local community and the wider environment.

Our curriculum is designed to ensure that students receive a high-quality mathematical education that is tailored to develop the skills the learners will require to develop mathematical application and resilience, and to have a sense of enjoyment and curiosity about the subject.

Through personalised, high quality and ambitious delivery pupils will study the 5 main strands of Mathematics – number, ratio and proportion, algebra, shape and measure and data handling. All 5 areas will be applied to real life situations to develop and enhance their ability to be able to apply the skills learnt. Pupils will also develop their ability to apply skills learned in one strand to different areas of Mathematics to further deepen their understanding.

In addition to studying the full breadth of the National Curriculum students are provided with enrichment opportunities such as entering department, trust and UKMT challenges.

*“Without mathematics, there’s nothing you can do. Everything around you is mathematics.”*

— Shakuntala Devi