

Colne Valley High School Curriculum Intent - Mathematics



Through our ambitious curriculum we aim to provide opportunities to create logical and resilient individuals, equipped with the foundations needed to deal with the challenges of a numerically dependent world.

We aim to do this by:

- Ensuring all students have the opportunity to explore **the beauty and power** of mathematics through a **knowledge-rich curriculum**.
- Instilling a sense of **enjoyment and curiosity** about the subject by ensuring students actively participate in a range of engaging and thought-provoking tasks that **make students think deeply**.
- Ensuring that our curriculum is logically ordered in a **spiralised sequence** that enables students to grow in fluency from previous knowledge.
- Providing opportunities for students to become **fluent in the fundamentals** of mathematics through varied and frequent practice with increasingly complex problems over time.
- Explicitly teaching students how to **reason mathematically** by conjecturing relationships, and developing an argument, justification or proof using mathematical language.
- Ensuring students can become **confident problem solvers** by applying their understanding and logic to a variety of familiar and unfamiliar scenarios.
- Ensuring students are aware of the strong connections between key ideas by **interleaving** fundamental threads throughout the syllabus.
- Providing opportunities for students to revisit previously seen material so that **long term memories** and **schemas** are continually strengthened.
- Delivering high standards of **modelling and mathematical language**, including explicitly teaching **metacognitive and self-regulatory strategies** so students can become sophisticated in monitoring and purposefully directing their learning.
- Nurturing students' **character, resilience and grit** so they can contribute positively to school life, their local community and the wider environment.

Through working together with all our community, we create **magical learning experiences**.