

Curriculum Implementation – Mathematics

Key Stage 4

Key Concepts Taught



- Skills to enable analysis and problem solving, with the ability to reason and communicate mathematically through five main areas:
 - Shape and Space
 - Algebra
 - Number
 - Ratio and Multiplicative Reasoning
 - Data handling with Probability

How You Receive Feedback



- Feedback is personalised through marking of assessments and books, delivered by a 'NOW' task allowing students to successfully reach next steps.
- Peer and self-assessment opportunities are given in lessons.
- Verbal feedback is used every lesson.

How do Lessons Link to Key Concepts



- Mathematics is taught on a spiral curriculum meaning that each topic is revisited regularly through the GCSE course and built on each time.
- Topic links are created and explored and as far as possible cross curricular links and real life applications are made.
- Concepts are linked to examination questions from past papers.





**How we get
Support with our
Lessons**



- Support is offered in mathematics through:
 - scaffolding and modelling.
 - questioning and practising of skills.
 - practising examination questions.
- Where possible additional support is delivered through the Specialised Learning Department.

**Retrieval Practice
Opportunities /
Supporting Ways
to Help us
Remember**



- Low stakes quizzes and interleaved questions are mixed with examination questions and home learning tasks.

**Opportunities for
Literacy**



- Mathematics relies on some specific technical vocabulary which is explicitly taught and reinforced through spellings and definition quizzes.

**Opportunities for
Oracy**



- Questions responded to in full sentences.
- Discussions about topics.
- Think-pair-share opportunities are offered.





Opportunities for Character Education



- Group work and think-pair-share encourages respectful dialogue and resilience in lessons.
- Trips to places such as Bletchley Park offer cultural capital too.

Opportunities for SMSC



- Through group and paired work students are encouraged to understand social mores.
- Links are made to real world applications.

Opportunities for Assessing Learning



- Retrieval practice and tasks designed to link learning.
- Formative and summative assessments.
- Assessment of home learning tasks.
- Examination questions are used to assess readiness for examinations.

