

9 MATHS

Curriculum & Assessment Outline

2019 – 2020



Year 9 Maths

Students continue to follow a five year scheme of learning that is aspirational, challenging and offers sequential learning coupled with rigorous low stakes assessment to embed knowledge in student long term memory. This outcome of the design is to ensure students are stretched and challenged. The lessons involve problem-solving, fluency and reasoning aspects, essential skills for students to develop. Students are given strategies to approach problem-solving questions, for example using bar modelling. There are also real-life contextualised questions, including questions on Science, Technology, Engineering and Maths (STEM) to help students explore how mathematical problem-solving can be applied to practical activities.

Yr 9 Maths Curriculum: Foundation

- Topic 1:** Number properties and calculations.
- Topic 2:** Shapes and measures in 3D.
- Topic 3:** Statistics.
- Topic 4:** Expressions and Equations.
- Topic 5:** Decimal calculations.
- Topic 6:** Angles.
- Topic 7:** Number Properties.
- Topic 8:** Sequences.
- Topic 9:** Fractions and Percentages.
- Topic 10:** Probability.

Yr 9 Maths Curriculum: Higher

- Topic 1:** Factors and Powers.
- Topic 2:** Working with Powers.
- Topic 3:** 2D Shapes and 3D Solids.
- Topic 4:** Real life graphs.
- Topic 5:** Transformations,
- Topic 6:** Fractions, decimals and percentages.
- Topic 7:** Constructions and Loci
- Topic 8:** Probability.
- Topic 9:** Scale drawings and measures.
- Topic 10:** Graphs.

Year 9 Summative Assessment Calendar:

- End of term assessment 1:** December
- End of term assessment 2:** March
- End of year assessment:** June

How can I support my child?

Students have access to the MathsWatch website <https://vle.mathswatch.co.uk>, a very useful tool for them to enhance their skills and plug gaps in knowledge. It is recommended that students log in to this on a regular basis.

Pupil login – Students are given their username at the start of the year

Pupil password – pupil date of birth written in the following format: dd/mm/yyyy

Students follow the national curriculum throughout Key Stage 3. This is designed for students to be stretched and challenged and ensures problem-solving, fluency and reasoning questions are involved in all lessons.

Students are given strategies to approach problem-solving questions, for example using bar modelling. There are also real-life contextualised questions to help students explore how mathematical problem-solving can be applied to practical activities. Students are offered additional support in after school sessions and are always encouraged to speak to their teachers if they have any questions and/or require further help. Homework is set on a weekly basis and this usually takes the form of either a Knowledge Organiser quiz or a task on the MathsWatch website, with problems based on work completed that week in class and on previous topics studied.