

GCSE MATHEMATICS



Our Aims

At Astley Community High School, we aim to develop a positive approach to Mathematics by making it interesting and relevant to students. We offer support and encouragement so that students can be confident to try different approaches and learn from mistakes.

The mathematics GCSE has changed over the last few years. Grades now are awarded from 1 (lowest) to 9 (highest). There are other important changes too:

- The **volume of subject content** has increased.
 - The **demand of that content** has increased too, with harder topics now included. This is true for both Foundation Tier students and Higher Tier students.
 - The **total time for the examinations** has increased.
 - In the assessments, there is a greater emphasis on **problem solving** and **mathematical reasoning**, with more marks now being allocated to these higher-order skills
 - Students are required to memorise formulae – **fewer formulae will be provided in examinations**.
- Together these changes are designed to help students emerge from GCSE maths with a level of confidence and fluency that will provide a genuine foundation for the rest of their learning and working lives.

The Course

All students will follow the GCSE linear syllabus at either the Foundation or Higher tier. There is no coursework for GCSE Mathematics. For each tier there are **three written examinations** each lasting 1 hour and 30 minutes. Students will be allowed the use of a calculator for two of these papers. Students are set regular homework and we expect a best effort. Feedback will be provided, and students are given the opportunity to make corrections during lesson time.

In order to ensure that pupil progress is monitored, there are regular progress tests. Pupils will be supported with revision prior to a test and be given the opportunity to revisit problem areas after the test. Pupils will also review previous targets and set new ones for the next half term block. Parents will be informed of results which are significantly below target. Postcards will be issued for pupils who are working above the expected level. Set changes may occur as a result of progress test monitoring.

Support

Close to the GCSE examination, we will provide additional opportunities for revision. Over the last few years we have successfully used small group intervention and crammer sessions. All pupils are issued with practice examination papers, which are marked and graded.

Students can access a wealth of maths videos and worksheets on Corbett Maths. Some students independently work through the 5 a day sheets. We will share practice papers via the google classroom.

It is essential that students are fully equipped for the Mathematics course. **All students require a scientific calculator for all lessons**. We find the **Casio** ones are easiest for students to use. Revision guides and calculators are available to purchase from the Finance Office.

We are keen that all pupils make good progress and so we are more than happy to discuss the needs of individual pupils where necessary.

For further information, please see Mrs Ward or your Maths teacher