

Year 9 Mathematics

Year 9

- Transition from Key Stage 3 mathematics to GCSE mathematics.
- There is a **new national GCSE mathematics curriculum**. It contains more challenging content and a focus on **fluency, reasoning and problem-solving**. We have been working hard to ensure that our students are well-equipped to deal with these changes.
- All **assessments** are in the style of the new GCSE and are now **graded 1-9** using new GCSE criteria.
- Breadth of topic areas studied:
 - **Number, Ratio and Proportion, Algebra, Geometry, Statistics and Probability.**

Growing Mathematicians

Scheme of work, a 'mastery' curriculum

- Gives time to delve deeper and to understand the 'how' and the 'why'.
- Gives students the opportunity to meet and understand each topic covered and see greater links between different areas.

Growth mindset

- All students cover exactly the same topics, just to a level that is appropriate for them.
- The new national mathematics GCSE has been designed to be more challenging.
- Students need to see that we can build on our abilities, that effort is the way to grow and that setbacks are a part of growth.

Student Mapping document with minimum expected standards (on orange paper)

- Each half term your child will receive the minimum expected standards for the topic being covered that half term.
- They will be able to see the progression in the topic as well as see what the questions look like.
- They can use these to reflect on their understanding and progression throughout the term.
- They will also use this to identify their independent interventions through the videos on mathswatch.

Assessments

- There will be half termly topics of formative assessments.
- There will be termly summative assessments in Autumn 2, Spring 2 and Summer 2. The Autumn 2 date is Wednesday 22nd November.

Years 10 and 11

- Students **continue to study the breadth and depth of GCSE mathematics**, gradually working towards their target grade by the end of Year 11.
- There will be **regular internal assessments** – these are opportunities for students to see where they are and act on the areas that they need to improve on.
- The GCSE examinations are taken at the end of Year 11.
- Two tiers of entry available - Higher (grades 9-4) or Foundation (grades 5-1). **Students will be entered for the tier that gives them the best possible chance of achieving their potential.**

How can you help?

- Ensure that homework is attempted.
- Encourage your child to have a growth mindset and positive approach towards their mathematics work.
- Ensure that your child has and uses all of the mathematical equipment they need (calculator, ruler, compass and protractor).
- Encourage your child to make use of all of the resources available and work independently on mathematics at home e.g.

vle.mathswatch.com - *videos and worksheets at different grades.*

Username: 14 followed by the surname and first initial @tgacademy

i.e. 14BloggsJ@tgacademy Password: mathswatch

<http://corbettmaths.com/> - *5-a-day questions, online tutorials and practice*

<http://www.mathedup.co.uk/gcse-maths-takeaway/> - *videos, questions by topics and answers*