

Exam Board: *Eduqas*
Qualification: *C300U*
Assessment Information: *2 exams, (non-calculator/calculator) each 2hrs 15 mins*

[Link to official specification](#)

Department Information:

Students have 7-8 one hour lessons every fortnight. They are taught in ability groups, with sets 1 and 2 following the Higher tier GCSE content. All students have online access to their class texts and a personalised learning platform to ensure they are suitably challenged and supported. Students have six scheduled PPE assessments during the year. Set 1 students are encouraged to study the AQA Level 2 Further Maths Course to support their GCSE and help transition to A-level.

ACHIEVE in the curriculum:

*Students are encouraged to work **collaboratively** on problems, to show **ambition** through the resources they opt to work on, to show **endurance** to master concepts and to demonstrate **integrity** in their personalised home learning. We strive for students to share in our love of maths and ultimately be **happy** in their lessons.*

Curriculum Aims & Intent:

Our curriculum encourages students to develop confidence in mathematics and to recognise the importance of mathematics in their own lives. Our aim is to enable students to:

- develop fluent knowledge, skills and understanding of mathematical methods and concepts*
- acquire, select and apply mathematical techniques to solve problems*
- reason mathematically, make deductions and inferences and draw conclusions*
- comprehend, interpret and communicate mathematical information in a variety of forms appropriate to the information and context. There is an emphasis on problem solving which provides a strong mathematical foundation for learners who go on to study mathematics post-16.*

Resources:

<https://www.pearsonactivelearn.com/app/home> - online (9-1) GCSE Maths textbooks (login as a student with school email and password: FurzePlatt1).
<https://www.sparxmaths.uk/> - (select school and then click 'Login using Microsoft')
<https://login.mymaths.co.uk/login> (School username: furze password: reflect. Students are given their own portal login details in September)
<https://ukmt.org.uk/intermediate-challenges/intermediate-mathematical-challenge-ukmt-past-papers>.
<https://www.mathsgenie.co.uk/gcse.html> - Revision resources and past papers

Students should bring to all Maths lessons: Pen, Pencil, Ruler, Eraser, Scientific Calculator (we recommend the Casio fx-83GT CW / fx-85GT CW) and laptops.

How we keep parents informed:

Progress reports are published 4 times per year, in October, December, February and March, with a face-to-face parents' evening in October.

How parents can help their child:

Please check that your child regularly completes their personalised SparxMaths home learning, which is set every Monday, and due the following Monday. Encourage them to seek help if they are struggling, but do not answer questions for them as the questions could quickly become too challenging. Please also ensure your child brings the appropriate equipment, including a calculator and laptop, to every maths lesson. Maths workshop is run after school in M1/2 every Monday or Wednesday. Please advise your child to attend at least one of these sessions.

HIGHER TIER: What we study and when:					
Term	Unit, Topic Or Summary Of Work Covered	Knowledge, Understanding & Skills Developed	ACHIEVE / Personal Development Focus	How The Work Is Assessed	Careers Links
1	Circle Theorems	Radii – Chords – Tangents – Angles in circles	All lessons offer opportunities for students to demonstrate our ACHIEVE values.	PPE 1 (September)	
	More algebra	Manipulation of algebra - Algebraic fractions - Surds - Functions - Proof			
2	Vectors and geometric proof.	Introduction to vectors - Solving geometric problems using vectors		PPE 2 (November)	
	Proportion & graphs	Direct & inverse proportion – Exponential functions – Non-linear graphs – Translating graphs – Reflecting graphs		PPE 3 (January) PPE 4 (February)	
PPE 5 (March)					
4	L2 Further Maths / GCSE Revision schedule			PPE 6 (April)	
5					

FOUNDATION TIER: What we study and when:					
Term	Unit, Topic Or Summary Of Work Covered	Knowledge, Understanding & Skills Developed	ACHIEVE / Personal Development Focus	How The Work Is Assessed	Careers Links
1	Quadratic equations & graphs	Expanding double brackets - Plotting quadratics - Factorising quadratics - Quadratic equations	All lessons offer opportunities for students to demonstrate our ACHIEVE values.	PPE 1 (September)	
	Perimeter, area & volume	Circles - Semi-circles – Sectors – Cylinders – Pyramids - Cones - Spheres			F1 Designer
2	Fractions, indices, Standard form	Multiplying and dividing fractions – Index laws – Standard index form		PPE 2 (November)	Chemist; Scientist
	Congruence, similarity & vectors	Similarity & enlargement – Proof of congruence – Calculating with vectors		PPE 3 (January)	
3	Algebra	Non-linear graphs, Simultaneous equations, Rearranging formulae, Proof		PPE 4 (February)	
4	GCSE Revision schedule			PPE 5 (March)	
5			PPE 6 (April)		