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 four scheduled PPE assessments during the year, of increasing length.

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 GCSE (9-1) 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, November, March and July, with a face-to-face parents' evening in March.

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.

Term	Unit, Topic Or Summary Of Work Covered	Knowledge, Understanding & Skills Developed	ACHIEVE / Personal Development Focus	How The Work Is Assessed	Careers Links
HIGHER TIER: What we study and when:					
1	Graphs	Linear graphs – Rates of change – Real-life graphs – Quadratic, cubic & reciprocal graphs	All lessons offer opportunities for students to demonstrate our ACHIEVE values.	Unit assessment	
	Area & volume	Perimeter & area - Units & accuracy – Prisms – Circles - Sectors – Cylinders – Spheres – Pyramids - Cones		PPE 1 (non-calculator)	
2	Transformations & constructions	3D solids – Reflection – Rotation - Enlargement – Bearings - Scale drawings – Constructions - Loci		Combined unit assessment	Graphics designer. Navigation. Pilot. Architect.
3	Equations & Inequalities	Quadratic equations - Simultaneous equations - Linear inequalities			
	Probability	Combined events - Mutually exclusive events - Experimental probability - Tree diagrams - Conditional probability - Venn diagrams		Unit assessment	Sport statistical analyst. Gaming. Trading.
4	Multiplicative reasoning	Growth & decay - Compound measures - Ratio & proportion		PPE 2 (non-calculator) PPE 3 (calculator)	
	Similarity & congruence	Geometric proof – Congruence – Similarity and 3D solids			
5	Trigonometry	Trig graphs – Areas - Sine & cosine rule - 3D problems - Transforming trig graphs		PPE 4 (calculator)	Engineering.
	Further statistics	Sampling - Cumulative frequency - Box plots - Histograms		Combined unit assessment	
6	Equations & graphs	Simultaneous equations - Inequalities - Quadratic & cubic graphs - Iteration			

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	Angles	Angles in parallel lines – Angles in polygons	All lessons offer opportunities for students to demonstrate our ACHIEVE values.	Unit assessment	Engineering. Tiler.
1	Averages & range	Mean – Mode – Median – Range - Averages from frequency tables - Sampling		PPE 1 (non-calculator)	Market Research.
2	Perimeter, area & volume	Triangles – Quadrilaterals - Compound shapes - Surface area - Volume of prisms		Combined unit assessment	Designer. Construction
3	Graphs	Linear graphs - Real-life graphs			
3	Transformations	Translation – Reflection – Rotation - Enlargement		Unit assessment	Fabric designer. Tiler.
4	Ratio & proportion	Ratio & measures – Proportion graphs – Proportion problems		PPE 2 (non-calculator) PPE 3 (calculator)	Construction, Landscape gardening
4	Right-angled triangles	Pythagoras' theorem - Trigonometry			
5	Probability	Two events – Experimental - Venn diagrams - Tree diagrams		PPE 4 (calculator)	Gaming.
5	Multiplicative reasoning	Percentages - Growth & decay - Compound measures - Direct & inverse proportion		Combined unit assessment	Financial planner.
6	Constructions, loci & bearings	3D solids, Plans & elevations, Accurate drawings, Scale drawings - Constructions, Loci, Bearings			Architect. Pilot.p