Year 10 Maths

Curriculum intent

Our aim is to create positive, ambitious and resilient mathematical thinkers. To model and foster collaborative attitudes and instil a love of learning for all. We strive to deliver excellence to all, where everyone can succeed through hard work.

Mathematical mindset for Y10:

"It is not knowledge, but the act of learning, not possession but the act of getting there, which grants the greatest enjoyment" – Carl Friedrich Gauss

"What am I studying this year?"

Core content from KS3 will be revisited and fully mastered in the first term before being interwoven throughout the rest of the course.

Term	Knowledge and skills	Assessment	Homework
Autumn 1	N – Calculations A – Expressions G – Angles and polygons N – FDP	End of topic assessments Baseline exam 1	Homework is set weekly every Wednesday on Dr Frost. Students have to opportunity to continually practice recall of current and prior knowledge to secure their understanding. Students are also encouraged to use Dr Frost for independent study.
Autumn 2	G – Working in 2D S – Collecting, processing and representing data	End of topic assessments	
Spring 1	A – Formulae, brackets and identities N – Factors, powers and roots N – Measures and accuracy	End of topic assessments Baseline exam 2	
Spring 2	A – Equations and inequalities S – Probability	End of topic assessments	
Summer 1	A – Graphs 1 G – Sectors and constructions	End of topic assessments Baseline exam 3	
Summer 2	R – Ratio and proportion G – Trigonometry A – Sequences	End of topic assessments End of Y10 exam	

N = number, A = algebra, R = ratio and proportion, G = geometry and measures, S = statistics and probability

"How will I be assessed in Maths?"

Students are assessed in two ways:

- Informally with a variety of activities including mini-whiteboards, check-point questions and low-stakes quizzes. Students will receive verbal feedback in every lesson in response to these checks. Teachers will guide students every lesson through their independent practice, hunt for and address misconceptions as they arise and review answers to all questions set.

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- Formally with end of topic assessments, three GCSE baseline assessments sat as "exams" once per term plus one end of year exam. Students will be given a revision list which includes a list of topics to revise along with search codes for Dr Frost.
    o Baseline 1 will assess Number and Algebra topics
    o Baseline 2 will assess Geometry and Ratio & Proportion topics
    o Baseline 3 will assess Statistics and Probability topics
    o Y10 End of Year exam will assess all topics covered in Y10

"What is coming up next?"

Next year students will finish receiving quality first teaching of the final topics in the GCSE course. Students will then follow a bespoke scheme of learning for the final few months leading up to exams. Lessons will continually focus on retrieval and learning exam strategies.

Students will demonstrate pride in their work by:

- Presenting information clearly and neatly to aid learning
- Writing a date and title for all work
- Writing in blue or black pen
- Completing drawings and diagrams in pencil
- Glue in sheets flat and in order
- Annotate work and make corrections when asked to
- Cross out any mistakes neatly
- Highlight key words and explanations