

Urmston Grammar School

Newton Road
Urmston
Manchester
M41 5UG
email: office@urmstongrammar.org.uk
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Tel: 0161 748 2875
VAT Registration Number: 120 1656 61



Dear Parent/Guardian,

We would like to make you aware that the Maths department will be continuing with weekly 'Maths Clinics' for Year 12 and 13 from Tuesday 13th October in order to support students.

The sessions will run at lunchtimes in M2 and M3. Pupils should arrive promptly at the start of lunch. It may be advisable for them to bring a packed lunch on this day in order for them to be ready in time for Period 5.

There will be a weekly topic focus for each session, the topic list is attached below, and pupils are encouraged to bring any questions they would like to work on to the sessions.

We thank you in advance for your encouragement and ongoing support.

Kind Regards,

Miss G Cookson

Head of Mathematics
Urmston Grammar School

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KS5 Maths Clinic Topic List

Date	Y12 Topic	Y13 Topic
13/09/2022	Linear Graphs	Binomial Expansion
20/09/2022	Algebraic Expressions	Radians
27/09/2022	Completing the Square	Transforming Graphs
04/10/2022	The Discriminant	Sequences
11/10/2022	Quadratic Inequalities	Small Angle Approximations
18/10/2022	Histograms	Recurrence Relations
25/10/2022		
01/11/2022	Algebra and Functions	Differentiation (first principles and chain rule)
08/11/2022	Algebra and Functions - Graphs	Trig (double angles formulae)
15/11/2022	Sketching curves and transformations	Partial Fractions
22/11/2022	Coordinate Geometry	Differentiation (product and quotient rule)
29/11/2022	Probability	Trig (Identities)
06/12/2022	Indices and Surds	Trig Equations
13/12/2022	Box Plots	
20/12/2022		
27/12/2022		

03/01/2023	Differentiation	Parametric Equations
10/01/2023	Hypothesis Testing	Integration
17/01/2023	Integration	Forces
24/01/2023	Discrete Random Variables	Integration (substitution)
31/01/2023	Differentiation and Integration	Hypothesis Testing
07/02/2023	Vectors	Integration (Parametric)
14/02/2023		
21/02/2023	Circles	Normal and Binomial
28/02/2023	Modelling Mechanics	Proof
07/03/2023	Factor Theorem	Moments
14/03/2023	SUVAT	Sequences and Series
21/03/2023	Proof	Normal Distribution
28/03/2023	Binomial Expansion	Differentiation and Integration
04/04/2023		

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11/04/2023		
18/04/2023	Sine, Cosine and Area of Triangles	Trig
25/04/2023	Exponentials and Logs	Pure Paper
02/05/2023	Spread and Standard Deviation	Pure and Applied Paper
09/05/2023	Correlation and Regression	Pure
16/05/2023	Trig Equations	Applied Paper
23/05/2023	Velocity Time Graphs	Pure paper
30/05/2023		
06/06/2023	2D Vectors	
13/06/2023	Factors and Remainders	
20/06/2023	Logs	
27/06/2023	$F=ma$	
04/07/2023	Binomial	
11/07/2023	Variable Acceleration	