

2023 A'Level H2 Math Revision Class



43 Topics. 30 Hours. 1 Month.

If this is not your ultimate H2 Math revision program for A'levels, then we don't know what is!

No.	Topics	Day/Date/Time
1	Sequences & Series 1. Arithmetic Progression, 2. Geometric Progression,	3. Summation, 4. Method of Difference, A: Thu 5 th Oct 6 – 9 pm B: Fri 20 th Oct 10 – 1 pm
		5. Functions, 6. Graph Transformations, 7. Inequalities, 8. System of Linear Equations,
2	Functions and Graphs 9. Curve Sketching, 10. Power Series, 11. Small Angle Approximations,	A: Sat 7 th Oct 2 – 5 pm B: Tue 31 st Oct 10 – 1 pm
		12. Techniques of Differentiation (includes implicit and parametrically), 13. Maxima and Minima,
3	Differentiation 14. Tangents and Normals, 15. Connected Rate of Change, 16. Maclaurin Series,	A: Thu 12 th Oct 6 – 9 pm B: Fri 3 rd Nov 10 – 1 pm
		17. Techniques of Integrations (including substitution and by parts),
4	Integration 18. Area under parametric curve or polynomials, 19. Volume of revolutions,	A: Sat 14 th Oct 2 – 5 pm B: Mon 30 th Oct 10 – 1 pm
		20. Solving general and particular solutions of differential equations (including substitution)
5	Differential Equations & Conics 21. Formulating differential equations from word problems 22. Hyperbola and Ellipse	A: Thu 19 th Oct 6 – 9 pm B: Tue 24 th Oct 10 – 1 pm
		23. Basic properties of complex number (complex roots of polynomial equations, conjugate roots etc),
6	Complex Numbers 24. Understanding and manipulation of complex number in Polar, Exponential & Cartesian form, 25. Understanding Argand diagram and its properties,	A: Sat 21 st Oct 2 – 5 pm B: Sun 29 th Oct 2 – 5 pm
		26. Basic properties of vectors (including unit vectors, ratio theorem etc),
7	Vectors 27. Scalar and Vector product of vectors,	28. Finding foot of perpendicular, length of projection and shortest distance etc, A: Fri 27 th Oct 6 – 9 pm B: Wed 1 st Nov 10 – 1 pm
		29. Angle between lines, planes and etc,
8	Probability and Permutations & Combinations 30. Understanding independent and mutually exclusive events, 31. Using tree diagrams, tables of outcome, Venn diagram for calculations,	32. Conditional probabilities, 33. Discrete Random Variables, 34. Permutation and Combinations of objects in line or circles, A: Sat 28 th Oct 2 – 5 pm B: Tue 10 th Oct 2 – 5 pm
		35. Properties of Binomial and Normal distribution, 36. Usage of Central Limit Theorem,
9	Binomial and Normal Distribution 37. Assumption of Binomial and Normal Distribution under context of the question,	A: Thu 2 nd Nov 6 – 9 pm B: Sun 15 th Oct 2 – 5 pm
		38. Sampling (including finding unbiased sample mean and variance),
10	Hypothesis Testing and Linear Regression & Correlation 39. Concepts of null and alternative hypotheses (including 1-tail & 2-tail tests), 40. Calculating test statistics, critical region, level of significance and p -value,	41. Understanding scatter diagrams between 2 variables (including use of suitable transformation to achieve linearity), 42. Finding & understanding the concepts of product moment correlation coefficient, 43. Concepts of interpolation & extrapolation. A: Sat 4 th Nov 2 – 5 pm B: Mon 16 th Oct 10 – 1 pm

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Bundle Promotions

Package	Individual	Buddy*
Hi - Five (any 5 lessons)	\$ 40 off	\$ 90 off
Mix & Match (any 8 lessons)	\$ 180 off	\$ 370 off
Grandmaster (all 10 lessons)	\$ 280 off	\$ 600 off

All current students enjoy another \$50 off (min 5 lessons)

**At most 1 of you can be AO Studies current Math class student*

For example, John (current AO Studies' student) joins with his buddy before 1st Oct and register for all lessons (Grandmaster)

He receives
\$600 + \$50
= **\$650 discount!**

He pays only
 $10 * \$200 - \$650 = \underline{\$1350}$

Each lesson is \$200.