

# 2020 A'level H2 Math Revision Class



**40 Topics. 42 Hours. 1 Month.**

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*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	<b>Sequences &amp; Series</b>	1. Arithmetic Progression, 2. Geometric Progression, 3. Summation, 4. Method of Difference, <del>A: Thu 1<sup>st</sup> Oct 6 – 9 pm</del> B: Sat 17 <sup>th</sup> Oct 2 – 5 pm -
		5. Functions, 6. Graph Transformations, 7. Inequalities, 8. System of Linear Equations, 9. Curve Sketching, 10. Power Series, 11. Small Angle Approximations, <del>A: Fri 2<sup>nd</sup> Oct 6 – 9 pm</del> B: Sun 18 <sup>th</sup> Oct 2 – 5 pm -
3	<b>Differentiation</b>	12. Techniques of Differentiation (includes implicit and parametrically), 13. Maxima and Minima, 14. Tangents and Normals, 15. Connected Rate of Change, 16. Maclaurin Series, A: Thu 8 <sup>th</sup> Oct 6 – 9 pm B: Sat 24 <sup>th</sup> Oct 2 – 5 pm C: Wed 7 <sup>th</sup> Oct 6 – 9 pm
		17. Techniques of Integrations (including substitution and by parts), 18. Area under parametric curve or polynomials, 19. Volume of revolutions, A: Fri 9 <sup>th</sup> Oct 6 – 9 pm B: Sun 25 <sup>th</sup> Oct 2 – 5 pm C: Tue 13 <sup>th</sup> Oct 10 – 1 pm
5	<b>Differential Equations &amp; Conics</b>	20. Solving general and particular solutions of differential equations (including substitution) 21. Formulating differential equations from word problems 22. Hyperbola and Ellipse <del>A: Mon 12<sup>th</sup> Oct 6 – 9 pm B: Sat 3<sup>rd</sup> Oct 2 – 5 pm</del> -
		23. Basic properties of complex number (complex roots of polynomial equations, conjugate roots etc), 24. Understanding and manipulation of complex number in Polar, Exponential & Cartesian form, 25. Understanding Argand diagram and its properties, A: Fri 16 <sup>th</sup> Oct 6 – 9 pm <del>B: Sun 4<sup>th</sup> Oct 2 – 5 pm</del> C: Wed 21 <sup>st</sup> Oct 10 – 1 pm
7	<b>Vectors</b>	26. Basic properties of vectors (including unit vectors, ratio theorem etc), 27. Scalar and Vector product of vectors, 28. Finding foot of perpendicular, length of projection and shortest distance etc, 29. Angle between lines, planes and etc, A: Mon 19 <sup>th</sup> Oct 6 – 9 pm B: Sat 10 <sup>th</sup> Oct 2 – 5 pm -
		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: Fri 23 <sup>rd</sup> Oct 6 – 9 pm B: Sun 11 <sup>th</sup> Oct 2 – 5 pm C: Thu 22 <sup>nd</sup> Oct 10 – 1 pm
9	<b>Binomial &amp; Normal Distribution</b>	35. Properties of Binomial and Normal distribution, 36. Usage of Central Limit Theorem, 37. Assumption of Binomial and Normal Distribution under context of the question, A: Mon 26 <sup>th</sup> Oct 10 – 1pm B: Tue 27 <sup>th</sup> Oct 10 – 1 pm -
		38. Sampling (including finding unbiased sample mean and variance), 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, A: Tue 27 <sup>th</sup> Oct 2 – 5 pm B: Mon 26 <sup>th</sup> Oct 2 – 5 pm -

# 2020 A'level H2 Math Revision Class



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No.	Mock Exam	Day/Date/Time
11	AO Studies H2 Math Mock Exam Paper 1*	Wednesday 28 <sup>th</sup> Oct 8 – 11 am
	Review for Paper 1	A: Thu 29 <sup>th</sup> Oct 10 – 1 pm B: Thu 29 <sup>th</sup> Oct 2 – 5 pm
12	AO Studies H2 Math Mock Exam Paper 2*	Friday 30 <sup>th</sup> Oct 8 – 11 am
	Review for Paper 2	A: Sat 31 <sup>st</sup> Oct 10 – 1 pm B: Sat 31 <sup>st</sup> Oct 2 – 5 pm

\*Students who pass both Paper 1 and 2 *individually* will receive \$50 worth of cash vouchers.

## Bundle Promotions

Number of lessons signing up	Alone	With a friend
7 – 10 lessons	5% off	10% off
All 12 lessons <sup>#</sup>	15% off	40% off

All current students enjoy a further 10% discount.

<sup>#</sup>: Students who joined **both** crash courses in July and Sept will get 25% discount instead of 15%.

Each lessons is \$190.

Payment by Cash/Cheque/iBanking/PayNow.

1. Cheque payment – Payee: “**AO STUDIES LLP**”.
2. PayNow – via **UEN: T12LL1438B** or via **HP: 90779077**
3. iBanking – Account Transfer to **OCBC Current 519-506687-001**