

SUBJECT CONTENT

Knowledge of the content of O-Level Mathematics syllabus is assumed in the syllabus below and will not be tested directly, but it may be required indirectly in response to questions on other topics.

Topic/Sub-topics		Content
ALGEBRA		
A1	Equations and inequalities	- Conditions for a quadratic equation to have: (i) two real roots (ii) two equal roots (iii) no real roots - and related conditions for a given line to: (i) intersect a given curve (ii) be a tangent to a given curve (iii) not intersect a given curve - Conditions for $ax^2 + bx + c$ to be always positive (or always negative) - Solving simultaneous equations in two variables with at least one linear equation, by substitution - Relationships between the roots and coefficients of a quadratic equation - Solving quadratic inequalities, and representing the solution on the number line
A2	Indices and surds	- Four operations on indices and surds, including rationalising the denominator - Solving equations involving indices and surds
A3	Polynomials and Partial Fractions	- Multiplication and division of polynomials - Use of remainder and factor theorems - Factorisation of polynomials - Use of: $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$ $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$ - Solving cubic equations - Partial fractions with cases where the denominator is no more complicated than: $(ax + b)(cx + d)$ $(ax + b)(cx + d)^2$ $(ax + b)(x^2 + c^2)$
A4	Binomial expansions	- Use of the Binomial Theorem for positive integer n - Use of the notations $n!$ and $\binom{n}{r}$ - Use of the general term $\binom{n}{r}a^{n-r}b^r$, $0 < r < n$ (knowledge of the greatest term and properties of the coefficients is not required)

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New Syllabus Mathematics for O-Level Owen William Perry, Joyce Perry, 1979 **Notes on the "O" Level Mathematics Syllabus (forms II, III, and IV)**, 1962* *New Syllabus Tests* Trevor Johnson, 1970 New Syllabus 'O' Level Additional Mathematics & AO Mathematics (pure Mathematics) Pearly Lim, 1999 *New Syllabus Mathematics for O-Level 2* Owen Perry, 1979 *Mathematics (syllabus C) (yearly) : Worked Solutions Year by Year, June & December 1987-1997* Redspot Publishing, 1998 G.C.E. 'O' Level Mathematics (syllabus D) Quick Revision Donald Hang, 1990 O-level Classified Mathematics(D), 2002 **Cambridge O Level Mathematics Coursebook** Audrey Simpson, 2016-03-17 Cambridge O Level Mathematics is a resource to accompany the revised 4024 syllabus This coursebook provides a complete course for developing and practising the skills required for the O Level Mathematics qualification The content has been written to offer a range of tasks that support all aspects of the Cambridge O Level Mathematics syllabus 4024 giving students the confidence to use the mathematical techniques required to solve the range of maths problems required With detailed explanations of concepts worked examples and exercises this coursebook can be used as a classroom text and for self study *Normal (Technical) Level Mathematics Teaching and Learning Syllabus* Singapore. Curriculum Planning & Development Division, 2012 **Comprehensive Notes on 'O' Level Additional Mathematics (syllabus 4049)** Hock Lai Siah, Spario Soon, 2020 New Syllabus Mathematics for Olevel 1 & 2 Owen William Perry, Joyce Perry, 1979 Elementary Mathematics, Syllabus B, 1982 *G C E 'O' Level Elementary Mathematics Syllabus B*, 1978 *O-level Mathematics Challenging Learn-By-Example (Concise) (Yellowreef)* Thomas Bond, Chris Hughes, 2013-11-07 covers latest MOE syllabus comprehensive examples and solutions for quick revision helps students to familiarise with various exam question types complete edition and concise edition eBooks available Comprehensive Notes on 'O' Level Additional Mathematics (syllabus 4047) Hock Lai Siah, 2013 *Mathematics*, 2025 *Comprehensive Notes on 'O' Level Mathematics (syllabus 4052)* May Ling Soon, 2022 **Mathematics (syllabus D) (yearly) : Worked Solutions Year by Year, June & December 1993-2001** Redspot Publishing, 2002 *New Syllabus 'O' Level Additional Mathematics, 'AO' Level Mathematics, Pure Mathematics*, 1988

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