

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)

Mathematics O Level Syllabus

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