

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 | <ul style="list-style-type: none"> Conditions for a quadratic equation to have: <ul style="list-style-type: none"> (i) two real roots (ii) two equal roots (iii) no real roots and related conditions for a given line to: <ul style="list-style-type: none"> (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 | <ul style="list-style-type: none"> Four operations on indices and surds, including rationalising the denominator Solving equations involving indices and surds |
| A3 | Polynomials and Partial Fractions | <ul style="list-style-type: none"> Multiplication and division of polynomials Use of remainder and factor theorems Factorisation of polynomials Use of: <ul style="list-style-type: none"> $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$ $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$ Solving cubic equations Partial fractions with cases where the denominator is no more complicated than: <ul style="list-style-type: none"> $(ax + b)(cx + d)$ $(ax + b)(cx + d)^2$ $(ax + b)(x^2 + c^2)$ |
| A4 | Binomial expansions | <ul style="list-style-type: none"> 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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Michael Seilmaier



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