

## 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  |
|------------------|-----------------------------------|--|
| <b>ALGEBRA</b>   |                                   |  |
| A1               | Equations and inequalities        | <ul style="list-style-type: none"> <li>Conditions for a quadratic equation to have:               <ul style="list-style-type: none"> <li>(i) two real roots</li> <li>(ii) two equal roots</li> <li>(iii) no real roots</li> </ul> </li> <li>and related conditions for a given line to:               <ul style="list-style-type: none"> <li>(i) intersect a given curve</li> <li>(ii) be a tangent to a given curve</li> <li>(iii) not intersect a given curve</li> </ul> </li> <li>Conditions for <math>ax^2 + bx + c</math> to be always positive (or always negative)</li> <li>Solving simultaneous equations in two variables with at least one linear equation, by substitution</li> <li>Relationships between the roots and coefficients of a quadratic equation</li> <li>Solving quadratic inequalities, and representing the solution on the number line</li> </ul> |
| A2               | Indices and surds                 | <ul style="list-style-type: none"> <li>Four operations on indices and surds, including rationalising the denominator</li> <li>Solving equations involving indices and surds</li> </ul>   |
| A3               | Polynomials and Partial Fractions | <ul style="list-style-type: none"> <li>Multiplication and division of polynomials</li> <li>Use of remainder and factor theorems</li> <li>Factorisation of polynomials</li> <li>Use of:               <ul style="list-style-type: none"> <li><math>a^3 + b^3 = (a + b)(a^2 - ab + b^2)</math></li> <li><math>a^3 - b^3 = (a - b)(a^2 + ab + b^2)</math></li> </ul> </li> <li>Solving cubic equations</li> <li>Partial fractions with cases where the denominator is no more complicated than:               <ul style="list-style-type: none"> <li><math>(ax + b)(cx + d)</math></li> <li><math>(ax + b)(cx + d)^2</math></li> <li><math>(ax + b)(x^2 + c^2)</math></li> </ul> </li> </ul>  |
| A4               | Binomial expansions               | <ul style="list-style-type: none"> <li>Use of the Binomial Theorem for positive integer <math>n</math></li> <li>Use of the notations <math>n!</math> and <math>\binom{n}{r}</math></li> <li>Use of the general term <math>\binom{n}{r}a^{n-r}b^r</math>, <math>0 &lt; r &lt; n</math> (knowledge of the greatest term and properties of the coefficients is not required)</li> </ul>   |

# O Level Zimsec Maths Syllabus For June 2015

**Terry C. Jones**



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