

## 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

**Shasha Hu**



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## **Table of Contents O Level Zimsec Maths Syllabus For June 2015**

1. Understanding the eBook O Level Zimsec Maths Syllabus For June 2015
  - The Rise of Digital Reading O Level Zimsec Maths Syllabus For June 2015
  - Advantages of eBooks Over Traditional Books
2. Identifying O Level Zimsec Maths Syllabus For June 2015
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an O Level Zimsec Maths Syllabus For June 2015
  - User-Friendly Interface
4. Exploring eBook Recommendations from O Level Zimsec Maths Syllabus For June 2015
  - Personalized Recommendations
  - O Level Zimsec Maths Syllabus For June 2015 User Reviews and Ratings
  - O Level Zimsec Maths Syllabus For June 2015 and Bestseller Lists
5. Accessing O Level Zimsec Maths Syllabus For June 2015 Free and Paid eBooks
  - O Level Zimsec Maths Syllabus For June 2015 Public Domain eBooks
  - O Level Zimsec Maths Syllabus For June 2015 eBook Subscription Services
  - O Level Zimsec Maths Syllabus For June 2015 Budget-Friendly Options
6. Navigating O Level Zimsec Maths Syllabus For June 2015 eBook Formats

- ePub, PDF, MOBI, and More
  - O Level Zimsec Maths Syllabus For June 2015 Compatibility with Devices
  - O Level Zimsec Maths Syllabus For June 2015 Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of O Level Zimsec Maths Syllabus For June 2015
    - Highlighting and Note-Taking O Level Zimsec Maths Syllabus For June 2015
    - Interactive Elements O Level Zimsec Maths Syllabus For June 2015
  8. Staying Engaged with O Level Zimsec Maths Syllabus For June 2015
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers O Level Zimsec Maths Syllabus For June 2015
  9. Balancing eBooks and Physical Books O Level Zimsec Maths Syllabus For June 2015
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection O Level Zimsec Maths Syllabus For June 2015
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine O Level Zimsec Maths Syllabus For June 2015
    - Setting Reading Goals O Level Zimsec Maths Syllabus For June 2015
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of O Level Zimsec Maths Syllabus For June 2015
    - Fact-Checking eBook Content of O Level Zimsec Maths Syllabus For June 2015
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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