

## 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>		
<b>A1</b>	<b>Quadratic functions</b>	<ul style="list-style-type: none"> <li>Finding the maximum or minimum value of a quadratic function using the method of completing the square</li> <li>Conditions for <math>y = ax^2 + bx + c</math> to be always positive (or always negative)</li> <li>Using quadratic functions as models</li> </ul>
<b>A2</b>	<b>Equations and inequalities</b>	<ul style="list-style-type: none"> <li>Conditions for a quadratic equation to have:               <ol style="list-style-type: none"> <li>two real roots</li> <li>two equal roots</li> <li>no real roots</li> </ol>               and related conditions for a given line to:               <ol style="list-style-type: none"> <li>intersect a given curve</li> <li>be a tangent to a given curve</li> <li>not intersect a given curve</li> </ol> </li> <li>Solving simultaneous equations in two variables by substitution, with one of the equations being a linear equation</li> <li>Solving quadratic inequalities, and representing the solution on the number line</li> </ul>
<b>A3</b>	<b>Surds</b>	<ul style="list-style-type: none"> <li>Four operations on surds, including rationalising the denominator</li> <li>Solving equations involving surds</li> </ul>
<b>A4</b>	<b>Polynomials and partial fractions</b>	<ul style="list-style-type: none"> <li>Multiplication and division of polynomials</li> <li>Use of remainder and factor theorems, including factorising polynomials and solving cubic equations</li> <li>Use of:               <ul style="list-style-type: none"> <li><math>a^2 + b^2 = (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>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>
<b>A5</b>	<b>Binomial expansions</b>	<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 \leq r \leq n</math> (knowledge of the greatest term and properties of the coefficients is not required)</li> </ul>

# Mathematics O Level Syllabus

**Pearly Lim**



## **Mathematics O Level Syllabus:**

*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 [GCE O Level Examination Past Papers with Answer Guides: Maths India Edition](#) Cambridge International Examinations, 2004-03-03 These collections of the official past papers of the GCE O Level Examinations from the University of Cambridge International Examinations has been developed for students of GCE O level These books will act as tools for preparation and revision for students These books have an edited Answer Guide for each paper based on the marks scheme written by CIE Principal [New Comprehensive Mathematics for 'O' Level](#) Alec Greer, Alex Greer, 1983 Based on part of the material from the author's best selling book *A Complete O level Mathematics* this book provides the most effective examination revision guide for the modern O level GCSE

*Cambridge O Level Mathematics Syllabus D 4024* Azhar ul Haque Sario, 2026-02-04 Unlock the secrets of the 2026 Cambridge O Level Mathematics syllabus with a complete guide This comprehensive study guide covers every corner of the Cambridge O Level Mathematics Syllabus D 4024 for the 2026 and 2027 exams It starts with the absolute basics of numbers You will master primes squares and integers It breaks down set language and Venn diagrams Algebra is explained through simple steps You will learn to manipulate equations and solve inequalities The book guides you through sequences and functions It simplifies coordinate geometry and linear graphs You will understand gradients and parallel lines easily Geometry topics are covered in depth It explains symmetry angles and circle theorems You will learn to construct shapes and interpret scale drawings Mensuration is made simple with clear formulas You will calculate area volume and surface area for complex 3D shapes Trigonometry is explored from right angled triangles to non right angled rules It covers the Sine and Cosine rules clearly Vectors and transformations are broken down into manageable parts You will also master probability and statistics It teaches you to interpret histograms and cumulative frequency diagrams This book offers a value that standard textbooks often miss by connecting abstract math to the modern world of 2026 While other books simply list formulas to memorize this guide provides Deep Dive analyses that explain the why and how behind the numbers It bridges the gap between the classroom and real life showing you how indices power modern cryptography and how vectors drive artificial intelligence It highlights specific Exam Traps and common student errors acting like a personal tutor who knows exactly where you might stumble The author uses a conversational tone to make complex topics like 3D trigonometry and limits of accuracy feel approachable rather than intimidating By focusing on the specific 2026 Context from data science to digital

architecture it keeps the content fresh relevant and engaging giving you a competitive edge in understanding not just how to solve a problem but what the solution actually means Legal Disclaimer This publication is an independent work by Azhar ul Haque Sario It is not affiliated with endorsed by or connected to Cambridge Assessment International Education or the Cambridge O Level board All trademarks syllabus names and references to specifications are used purely for descriptive purposes under nominative fair use to identify the scope of the educational material *A Textbook of Basic Statistics*,1987

**The Navy List** Great Britain. Ministry of Defence,1971 **Cambridge O Level Mathematics Syllabus D 4024** Azhar ul Haque Sario,2026-02-04 Unlock the secrets of the 2026 Cambridge O Level Mathematics syllabus with a complete guide This comprehensive study guide covers every corner of the Cambridge O Level Mathematics Syllabus D 4024 for the 2026 and 2027 exams It starts with the absolute basics of numbers You will master primes squares and integers It breaks down set language and Venn diagrams Algebra is explained through simple steps You will learn to manipulate equations and solve inequalities The book guides you through sequences and functions It simplifies coordinate geometry and linear graphs You will understand gradients and parallel lines easily Geometry topics are covered in depth It explains symmetry angles and circle theorems You will learn to construct shapes and interpret scale drawings Mensuration is made simple with clear formulas You will calculate area volume and surface area for complex 3D shapes Trigonometry is explored from right angled triangles to non right angled rules It covers the Sine and Cosine rules clearly Vectors and transformations are broken down into manageable parts You will also master probability and statistics It teaches you to interpret histograms and cumulative frequency diagrams This book offers a value that standard textbooks often miss by connecting abstract math to the modern world of 2026 While other books simply list formulas to memorize this guide provides Deep Dive analyses that explain the why and how behind the numbers It bridges the gap between the classroom and real life showing you how indices power modern cryptography and how vectors drive artificial intelligence It highlights specific Exam Traps and common student errors acting like a personal tutor who knows exactly where you might stumble The author uses a conversational tone to make complex topics like 3D trigonometry and limits of accuracy feel approachable rather than intimidating By focusing on the specific 2026 Context from data science to digital architecture it keeps the content fresh relevant and engaging giving you a competitive edge in understanding not just how to solve a problem but what the solution actually means Legal Disclaimer This publication is an independent work by Azhar ul Haque Sario It is not affiliated with endorsed by or connected to Cambridge Assessment International Education or the Cambridge O Level board All trademarks syllabus names and references to specifications are used purely for descriptive purposes under nominative fair use to identify the scope of the educational material **Schools Council Working Paper** Schools Council (Great Britain),1981 **New Syllabus Mathematics for O-Level** Owen Perry,Joyce Perry,1979 **New Syllabus 'O' Level Additional Mathematics & AO Mathematics (pure Mathematics)** Pearly Lim,1999 **Regulations and Syllabuses for the Joint Examinations for**

**the School Certificate and General Certificate of Education (ordinary Level) and General Certificate of Education (advanced Level)** West African Examinations Council,1978      **Teaching Secondary Mathematics with ICT** Sue Johnston-Wilder,David Pimm,2004-10 This practical book shows the reader how to use Information and Communication Technology ICT to enhance mathematics teaching in the secondary school      The Mathematical Gazette ,1984  
*Northern Ireland Education Statistics* Northern Ireland. Department of Education,1975      *New Syllabus Mathematics for O-Level 2* Owen Perry,1979      **Whitaker's Cumulative Book List** ,1970      *Bulletin de L'Institut International de Statistique* International Statistical Institute,1989      New Scientist ,1969      **British Education Index** ,1982      *Schools* ,1976

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