

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)

Mathematics O Level Syllabus

Yeping Li, Glenda Lappan



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 have 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. *New Syllabus Mathematics for O-Level* Owen Perry, Joyce Perry, 1979. **A Textbook of Basic Statistics**, 1987. **Longman Effective Guide to 'O' Level Additional Mathematics** Bee Hoo Ong, 2006.

Mathematics Curriculum in Pacific Rim Countries - China, Japan, Korea, and Singapore Zalman Usiskin, Edwin Willmore, 2008-09-01. This volume contains the proceedings of the First International Curriculum Conference sponsored by the Center for the Study of Mathematics Curriculum (CSMC). The CSMC is one of the National Science Foundation Centers for Learning and Teaching Award No. ESI 0333879. The countries China, Japan, Korea, and Singapore, in alphabetical order, which also happens to be the order of their populations, have each been in the news because of their performance on international tests and/or their economic performance and potential. They also have centralized education ministries that create a single mathematics curriculum framework followed in the entire country. In all these countries, curricula are differentiated for students with different interests, usually around Grade 10 or 11. We think the reader will agree that the papers are of very high quality, befitting the standing of the individuals who were invited, but particularly notable for our international speakers because in three of these countries, English is not the speaker's first language. Following each paper, we have included a short biography of the author so that the reader can understand the perspective of the paper's author. **Mathematics**

Curriculum in School Education Yeping Li, Glenda Lappan, 2013-11-19. Mathematics curriculum, which is often a focus in education reforms, has not received extensive research attention until recently. Ongoing mathematics curriculum changes in many education systems call for further research and sharing of effective curriculum policies and practices that can help lead to the improvement of school education. This book provides a unique international perspective on diverse curriculum issues.

and practices in different education systems offering a comprehensive picture of various stages along curriculum transformation from the intended to the achieved and showing how curriculum changes in various stages contribute to mathematics teaching and learning in different educational systems and cultural contexts The book is organized to help readers learn not only from reading individual chapters but also from reading across chapters and sections to explore broader themes including Identifying what is important in mathematics for teaching and learning in different education systems Understanding mathematics curriculum and its changes that are valued over time in different education systems Identifying and analyzing effective curriculum practices Probing effective infrastructure for curriculum development and implementation Mathematics Curriculum in School Education brings new insights into curriculum policies and practices to the international community of mathematics education with 29 chapters and four section prefaces contributed by 56 scholars from 14 different education systems This rich collection is indispensable reading for mathematics educators researchers curriculum developers and graduate students interested in learning about recent curriculum development research and practices in different education systems It will help readers to reflect on curriculum policies and practices in their own education systems and also inspire them to identify and further explore new areas of curriculum research for improving mathematics teaching and learning

School Mathematics Curricula Catherine P. Vistro-Yu, Tin Lam Toh, 2019-04-26 This book sheds light on school mathematics curricula in Asian countries including their design and the recent reforms that have been initiated By discussing and analyzing various problematic aspects of curriculum development and implementation in a number of East and South Asian countries and offering insights into these countries unique approaches to supplementing school mathematics curricula it contributes to shaping effective policies for implementation assessment and monitoring of curricula The book covers a wide range of issues curriculum design localization of curricula directions of curricular reforms mathematics textbooks assessment within the curriculum and teachers professional development which are of interest to a wide international audience

Teaching Maths D.M. Neal, 2013-10-23 School mathematics is a complex subject and an ever changing topic but this book will help teachers parents and employers to understand it better

Mathematics Education Khoon Yoong Wong, 2009 This title provides much food for thought and pointers to meet future challenges in mathematics education not only within Singapore but also in other countries

Teaching Secondary Mathematics With Ict Johnston-Wilder, Sue, Pimm, David, 2004-10-01 This practical book shows the reader how to use Information and Communication Technology ICT to enhance mathematics teaching in the secondary school

New Syllabus Mathematics for O-Level 2 Owen Perry, 1979

Schools Council Working Paper Schools Council (Great Britain), 1981

The Mathematics Enthusiast Bharath Sriraman, 2014-12-01 The Mathematics Enthusiast TME is an eclectic internationally circulated peer reviewed journal which focuses on mathematics content mathematics education research innovation interdisciplinary issues and pedagogy The journal exists as an independent entity It is published on a print on demand basis

by Information Age Publishing and the electronic version is hosted by the Department of Mathematical Sciences University of Montana The journal is not affiliated to nor subsidized by any professional organizations but supports PMENA Psychology of Mathematics Education North America through special issues on various research topics Routledge International Handbook of Schools and Schooling in Asia Kerry J. Kennedy, John Chi-Kin Lee, 2018-05-11 This comprehensive handbook is the ultimate reference work providing authoritative and international overviews of all aspects of schools and schooling in Asia Split into 19 sections it covers curriculum learning and assessment private supplementary tutoring special education gender issues ethnic minority education and LGBTQI students in Asian schools The volume displays the current state of the scholarship for schools and schooling in Asia including emerging controversial and cutting edge contributions using a thematic approach The content offers a broad sweep of the region with a focus on theoretical cultural and political issues as well as identifying educational issues and priorities such as curriculum assessment teacher education school leadership etc all of which impact students and learning in multiple ways The Routledge International Handbook of Schools and Schooling in Asia brings together experts in each area to contribute their knowledge providing a multidimensional and rich view of the issues confronting the region's school and education systems Chapters 34 35 36 37 and 38 of this book are freely available as downloadable Open Access PDFs at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license *Cambridge O Level Mathematics* Heather West, West Jeskins Matthews West Mike Handbury, 2016-04-29 Multiplying and dividing with negative numbers Surveying and Mapping, 1976 **Sir Alan Sugar - The Biography**, 2010-08-10 From a humble background growing up in an East London council flat Sir Alan Sugar has become a business success story and television sensation amassing a net worth of GBP830 million Charlie Burden traces his rags to riches story from a childhood boiling beetroots for the local greengrocer to his knighthood and seat at the table of power His company Amstrad went public in 1980 setting him on the road to riches with a string of successful businesses In the 1990s Sir Alan became chairman of Tottenham Hotspur and he has also become famous for his generous nature which has seen him support Great Ormond Street Hospital the Jewish Care charity and he has played a key part in the resurrection of the Hackney Empire **International Encyclopedia of Education**, 2009-04-17 The field of education has experienced extraordinary technological societal and institutional change in recent years making it one of the most fascinating yet complex fields of study in social science Unequalled in its combination of authoritative scholarship and comprehensive coverage International Encyclopedia of Education Third Edition succeeds two highly successful previous editions 1985 1994 in aiming to encapsulate research in this vibrant field for the twenty first century reader Under development for five years this work encompasses over 1 000 articles across 24 individual areas of coverage and is expected to become the dominant resource in the field Education is a multidisciplinary and international field drawing on a wide range of social sciences and humanities disciplines and this new edition comprehensively matches this diversity The diverse background and

multidisciplinary subject coverage of the Editorial Board ensure a balanced and objective academic framework with 1 500 contributors representing over 100 countries capturing a complete portrait of this evolving field A totally new work revamped with a wholly new editorial board structure and brand new list of meta sections and articles Developed by an international panel of editors and authors drawn from senior academia Web enhanced with supplementary multimedia audio and video files hotlinked to relevant references and sources for further study Incorporates ca 1 350 articles with timely coverage of such topics as technology and learning demography and social change globalization and adult learning to name a few Offers two content delivery options print and online the latter of which provides anytime anywhere access for multiple users and superior search functionality via ScienceDirect as well as multimedia content including audio and video files

Unveiling the Magic of Words: A Review of "**Mathematics O Level Syllabus**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Mathematics O Level Syllabus**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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