

# New Century Maths 12 General Hsc Course

New Century Maths 12 General Hsc Course New Century Maths 12 General HSC Course A Comprehensive Overview New Century Maths 12 General HSC Course is a comprehensive textbook designed to guide students through the General Mathematics syllabus for the Higher School Certificate HSC in New South Wales Australia This textbook aims to provide a thorough understanding of the key mathematical concepts and skills required for success in this challenging examination Structure and Content The textbook is structured to align with the HSC syllabus covering all the core modules and elective topics Each chapter is carefully crafted to build upon prior knowledge and gradually introduce new concepts Modules Module 1 Financial Mathematics This module focuses on the application of mathematical concepts to realworld financial situations It includes topics like simple and compound interest annuities loans and investments Module 2 Data Analysis This module delves into the analysis and interpretation of data Students will learn about different types of data measures of central tendency and dispersion correlation and regression analysis Module 3 Networks and Decision Mathematics This module explores the mathematical concepts related to networks and decisionmaking Topics covered include graph theory shortest path algorithms critical path analysis and linear programming Module 4 Geometry and Measurement This module revisits and expands on the fundamental concepts of geometry and measurement Students will learn about different shapes their properties and how to apply formulas for calculating area volume and surface area Electives The textbook also includes a dedicated section covering the elective topics allowing students to choose the area that best suits their interests and career aspirations Elective 1 Further Mathematics This elective provides a deeper exploration of advanced 2 mathematical concepts including calculus probability and statistical inference Elective 2 Discrete Mathematics This elective focuses on the mathematics of discrete structures including sets functions relations and algorithms Key Features Clear and Concise Explanations The textbook presents complex mathematical concepts in an accessible and understandable manner Abundant Worked Examples Numerous worked examples are provided throughout each chapter demonstrating the application of theoretical concepts to realworld problems Practice Questions Each chapter includes a comprehensive set of practice questions designed to reinforce understanding and develop problemsolving skills EndofChapter Reviews Endofchapter reviews provide a concise summary of key concepts and a comprehensive set of revision exercises ExamStyle Questions The textbook includes a significant number of examstyle questions to help students prepare for the HSC examination Online Resources Accompanying online resources such as interactive exercises video tutorials and online assessments provide additional support and practice opportunities Pedagogical Approach The textbook adopts a studentcentered approach emphasizing active learning and problem solving It encourages students to engage with the material by asking questions working through examples and collaborating with peers Target Audience New Century Maths 12 General HSC Course is specifically designed for students studying the General Mathematics course in Year 12 It is suitable for

both students aiming for a strong foundation in mathematics and those seeking to achieve a high ATAR score Conclusion New Century Maths 12 General HSC Course is a valuable resource for students preparing for the HSC examination in General Mathematics Its comprehensive coverage clear explanations and abundant practice opportunities make it an ideal tool for achieving academic success in this important subject 3

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the new mathematics general syllabus describes two pathways that start in year 11 even though both pathways share a common preliminary course students taking each pathway have specific learning needs so we have published two levels of text for both years 11 and 12 this addition to the successful new century maths series has been written for the new mathematics general course commencing in 2013 in nsw this book caters for the mathematics general 1 hsc course in year 12 for students heading towards the workforce or further training after school this content endorsed course is not hsc examinable providing mathematical skills for life this book includes access to the nelsonnet teacher website of resources and downloadable chapter pdfs for schools that use new century maths 12 as a core resource select bonus resource downloads to access the powerpoint presentation a exploring the new mathematics general syllabus and a summary of course changes written by series editor robert yen

contains comprehensive coverage of the new course chapter summaries research activities glossary of terms and useful websites

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nsw mathematics curriculum the material presented is suited to the full range of student abilities encountered in general mathematics the course strands are treated according to their relative emphasis in the nsw syllabus and include financial mathematics data analysis measurement probability and algebraic modelling each chapter commences with an outline of the material to be covered together with modelling applications and suggested technology use a summary for learning and understanding together with revision exercises complete each chapter investigations appropriate to each topic area are interspersed throughout each chapter along with graphics calculator and computer spreadsheet applications of the coursework

new century maths 11 general preliminary course and new century maths 12 general hsc course have been written to meet all the requirements of the new stage 6 general mathematics syllabus for new south wales they offer a fresh approach to teaching senior mathematics and includes a range of features designed to support students learning

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