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Chapter 1 : Mathematics | NSW Education Standards

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General Mathematics 2 unit: A basic mathematics course containing precalculus concepts, the course is heavily based on practical mathematics used in everyday life. An advanced level course based on Calculus also with detailed study in trigonometry, curve sketching and other complex algebraic disciplines such as locus. It is the highest level non-extension mathematics course. A more advanced course building on concepts in calculus, trigonometry, polynomials and basic combinatorics. Mathematics must also be studied in conjunction with this course. Mathematics 2 unit and Mathematics Extension 1 must also be studied in conjunction with this course, however students are not directly assessed on Mathematics 2 unit material. There are four courses offered for VCE study: Further Mathematics 4 Units: Further Mathematics is considered to be the second-least demanding of the four maths subjects and is the "standard" maths course taken by Victorian students[citation needed]. It deals with topics including basic algebra, matrices , trigonometry , straight line geometry , business -related mathematics and other concepts Mathematical Methods CAS 4 Units: Mathematical Methods is the most common non-compulsory prerequisite for tertiary study in Victoria. Methods deals with concepts including differential calculus , integral calculus , circular functions , probability and the behaviour of functions with a single real variable , incorporating the use of computer algebra system technology CAS throughout the course. Specialist Mathematics 4 Units: Specialist Mathematics is considered the most advanced high school mathematics subject in Victoria. The subject covers concepts including conic sections , complex numbers , differential equations , kinematics , vector calculus and mechanics. The idea behind Specialist Mathematics is to integrate already learnt concepts of calculus into other fields of mathematics, thus giving Specialist Mathematics a far more practical orientation than standard mathematical subjects. In addition to the regular mathematics courses offered in VCE, a new subject called Algorithmics Higher Education Scored Study began its coursework in Beginning with definitions of abstract data types and algorithms , this subject explores the concepts of pseudocode , sorting , common graph algorithms , recursion , algorithm design patterns , algorithm analysis and computational complexity theory. Queensland[edit] In Queensland , the senior years 11 and 12 curriculum is divided into three parts: There are considerably fewer algebraic concepts in this subject, and it is suitable for students who either struggled with mathematics in Year 10, or who do not require a knowledge of abstract mathematics in the future. Maths A is designed to help students to develop an appreciation of the value of Mathematics to humanity. Students learn how mathematical concepts may be applied to a variety of life situations including business and recreational activities. The skills encountered are relevant to a vast array of careers trade, technical, business etc. Assessments in the subject include both formative and summative written tests, assignments and practical work. It is assessed in the categories: Although Maths A is not a pre-requisite subject, but it is sufficient for entrance to many tertiary courses. The skills learned in each semester are as follows:

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