

Mathematics

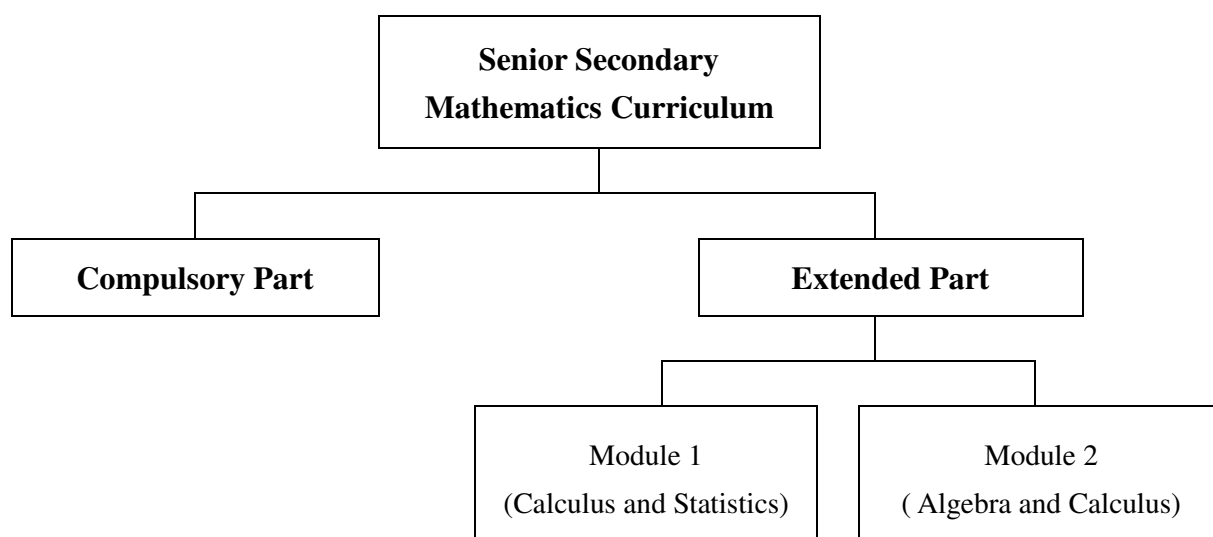
(for students studying in S4 in 2013/14 sy and taking the 2016 HKDSE Exam)

Why do you need to study Mathematics?

Mathematics is a powerful means in a technology-oriented and information-rich society to help students acquire the ability to communicate, explore, conjecture, reason logically and solve problems using a variety of methods. It plays an important role in communicating ideas through pictorial, graphical, symbolic, descriptive and analytical representations. Mathematics at the senior secondary level helps to lay a strong foundation for students' lifelong learning, and provides a platform for the acquisition of new knowledge in this rapidly changing world.

What will you learn from Mathematics?

Mathematics is one of the core subjects in the New Senior Secondary Curriculum. The Senior Secondary Mathematics Curriculum (SSMC) is a continuation of the Mathematics Curriculum at S1 – S3. It comprises a Compulsory Part and an Extended Part. The framework of the SSMC is represented diagrammatically as follows:



As a foundation for all students, the Compulsory Part provides mathematics concepts, skills and knowledge which are necessary for students' different career paths. The Extended Part consists of two optional modules, namely Module 1 (Calculus and statistics) and Module 2 (Algebra and Calculus), to suit those students who would like to learn more mathematics and in a greater depth. Students may take the Compulsory Part only, the Compulsory Part with Module 1 (Calculus and Statistics) or the Compulsory Part with Module 2 (Algebra and Calculus). Students are only allowed to take at most one module from the Extended Part.

How will you be assessed in Mathematics?

An outline of the assessment design for the HKDSE Mathematics Examination is as follows:

Compulsory Part		Weighting	Duration
Paper 1	Conventional questions	65%	2¼ hours
Paper 2	Multiple-choice questions	35%	1¼ hours

Module 1 (Calculus and Statistics)		Weighting	Duration
Conventional questions		100%	2½ hours

Module 2 (Algebra and Calculus)		Weighting	Duration
Conventional questions		100%	2½ hours

The performance of students in Module 1 / Module 2 is reported separately from the Compulsory Part. School-based Assessment (SBA) is not implemented in the HKDSE Mathematics Examination.

How can Mathematics help you prepare for your future?

Mathematics is a tool to help students enhance their understanding of the world. It provides a foundation for the study of other disciplines in the senior secondary and post-secondary education system. It also supports students' needs in numerous vocational areas and careers.

The Compulsory Part of the SSMC is one of the basic entrance requirements for local tertiary institutes. Many departments or faculties have a preference for students taking Module 1 or Module 2.

For further information, please refer to EDB's website "New Academic Structure Web Bulletin" (<http://334.edb.hkedcity.net/EN/>) or consult your teachers.