The Extended Part of Mathematics (M1/M2)

[applicable to the 2029 HKDSE Examination and onwards]

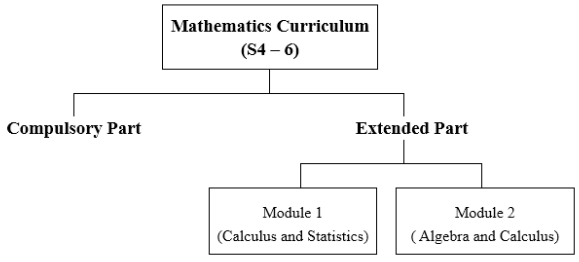
Mathematics Education Section
Innovation Technology Education Division
Education Bureau

Curriculum Aims

- To cater for students who have different needs, interests, and orientations, the Mathematics curriculum (S4 to 6) comprises a Compulsory Part and an Extended Part. All students are required to study the Compulsory Part.

- The Extended Part is composed of two modules, namely Module 1 (Calculus and Statistics) and Module 2 (Algebra and Calculus). The inclusion of the Extended Part is designed to provide more flexibility and diversity in the curriculum, allowing students to learn mathematical knowledge beyond the Compulsory Part. Students can choose to study at most one of the two modules based on their own needs and interests.

Framework of Senior Secondary Mathematics Curriculum



[*Note: 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.*]

Curriculum Framework

- Module 1 (Calculus and Statistics) consists of three areas ("Foundation Knowledge", "Calculus", and "Statistics") and a Further Learning Unit.

- Module 2 (Algebra and Statistics) consists of three areas ("Foundation Knowledge", "Algebra", and "Calculus") and a Further Learning Unit.

Curriculum Aims

Module 1 (Calculus and Statistics) is designed for the students who will need more in-depth mathematical knowledge in their future studies or careers, and wish to learn more mathematical applications at the senior secondary level. Its main aims include:

- providing students with mathematical skills and concepts beyond the Compulsory Part;
- emphasising the applications of mathematics over its rigour, thereby broadening students' perspectives in mathematics; and
- providing students with intuitive concepts of calculus and statistics, related basic skills, and useful tools to prepare them for their future studies and careers.

Curriculum Aims

Module 2 (Algebra and Calculus) is designed for the students who intend to pursue careers related to mathematics, and wish to learn more advanced mathematical knowledge at the senior secondary level. Its main aims include:

- providing students with mathematical skills and concepts beyond the Compulsory Part;
- emphasising the understanding of mathematics to help students in their future studies involving more mathematical knowledge; and
- assisting students in preparing for their future studies and careers by establishing a solid foundation in algebra and calculus.

Assessment Mode

- **Public Assessment**

  Module 1 (Calculus and Statistics)

  - The examination will consist of one paper of 2.5 hours' duration. The paper will be divided into two sections in which all the questions are to be attempted.
  - Section A (50 marks) will consist of 8-12 elementary short questions. Section B (50 marks) will consist of 3-5 long questions.

  Module 2 (Algebra and Calculus)

  - The examination will consist of one paper of 2.5 hours' duration. The paper will be divided into two sections in which all the questions are to be attempted.
  - Section A (50 marks) will consist of 8-12 elementary short questions. Section B (50 marks) will consist of 3-5 long questions.

- **No School-based Assessment**

Recognition of the Extended Part of Mathematics

- For the general entrance requirements of the bachelor's degree programmes offered by the eight UGC-funded universities, the results of the Extended Part of Mathematics (Module 1 or Module 2) are considered equivalent to that of an elective subject.

- For Associate Degree and Higher Diploma programmes, Level 2 in the Extended Part of Mathematics (Module 1 or Module 2) is also accepted as one of the five subjects in the minimum entrance requirements.

Reference

- Mathematics Curriculum and Assessment Guide (Secondary 4 - 6) (with updates in December 2017)

  https://www.edb.gov.hk/attachment/en/curriculum-development/kla/ma/curr/CA_2017_e.pdf

- Explanatory Notes to Senior Secondary Mathematics Curriculum
  - Module 1 (with updates in August 2018)

    https://www.edb.gov.hk/attachment/en/curriculum-development/kla/ma/curr/EN_M1_e.pdf
  - Module 2 (with updates in August 2018)

    https://www.edb.gov.hk/attachment/en/curriculum-development/kla/ma/curr/EN_M2_e.pdf

- For enquiries, please contact respective subject teacher(s) or class teacher(s) at school

Thank you