



Key information for the Mathematics Extension 1 Stage 6 Syllabus (2024)

- Schools and teachers use syllabuses to develop educational programs for students. The [Mathematics Extension 1 Stage 6 Syllabus \(2024\)](#) requires students to study 7 areas of study over 120 hours of course time.
- The new Mathematics Extension 1 11-12 syllabus is digital and formatted in this manner for all reform syllabuses. The digital format is interactive and allows for easy navigation. You can filter, search for specific topics, and explore resources directly. Categories include overview; rationale; aim; outcomes; content; assessment; glossary and teaching and learning support.
- School-based assessment requirements require schools to develop an assessment program for each Year 11 and Year 12 course. For school-based assessment requirements refer to [Assessments](#).
- The Mathematics Extension 1 11-12 syllabus has subject specific terms in the [Glossary](#) that are important to know.

HSC Examinations

- For details on the HSC Mathematics Extension 1 examination, refer to [Assessment](#).
- The examination will be based on the Mathematics Extension 1 Year 12 course and will focus on the Year 12 outcomes. The Mathematics Extension 1 Year 11 course will be assumed knowledge for this examination and may be examined.
- The HSC Mathematics Extension 1 examination consists of a written paper worth 70 marks. The written examination consists of 2 hours plus 10 minutes reading time and has two sections. Section I (10 marks) will be objective-response questions and Section II (60 marks) will be 23 to 28 items, where each question may contain parts and at least one item will be worth 4 or 5 marks. The [Mathematics Extension 1–HSC reference sheet](#) will be provided and [NESA-approved calculators](#) may be used.
- Past HSC papers by NESA, are a useful resource to help students to become familiar with the examination format and structure. Past papers for Mathematics Extension 1 can be found at [HSC exam papers](#).
- HSC standards materials by NESA, provide a collection of resources of sample responses typical of work at the boundaries between HSC bands. The [Mathematics Extension 1 standards materials](#).

- The Mathematics Extension 1 HSC exam is completed in conjunction with either the Mathematics Advanced HSC exam or the Mathematics Extension 2 HSC exam.

Support materials

The Mathematics Curriculum team provides resources to support NSW teachers in the delivery of the Mathematics Extension 1 11-12 syllabus (2024) and can be located on the [Planning programming and assessing Mathematics 11-12](#) webpage. Here you will find sample scope and sequences, units of learning, and assessments.

Resources can also be found on the [Mathematics Extension 1 \(2024\)](#) SharePoint page in the [Mathematics Statewide Staffroom](#) where there is a channel for [Mathematics Extension 1](#).

NESA also has a range of [Teaching and learning support](#) including:

- HSC Mathematics Extension 1 –annotated sample examination materials
- Professional Learning: Mathematics Advanced 11-12 and Mathematics Extension 11-12
- Sample scope and sequences, units of learning, assessment schedules, formal assessment task notifications



Professional learning

There are a range of 'on demand' professional learning resources to support the implementation of the Mathematics Extension 1 syllabus including:

- 5 modules of Microlearning, [Mathematics 11-12](#)
- [Statewide Staffroom recordings](#)

We also offer a range of live online and face to face professional learning events throughout the year. To view any upcoming events, go to the [Mathematics professional learning](#) page.

General HSC information

- The [NSW Education Standards Authority \(NESA\)](#) oversees the Higher School Certificate (HSC), offering resources for students on exam preparation, course selection, and academic integrity.
- The [NESA HSC glossary](#) provides teachers with guidance on how to use key terms consistently, ensuring students understand their meanings and apply them appropriately across various subjects for effective exam preparation.
- The NESA [HSC assessment moderation](#) process ensures fairness by adjusting school assessment marks based on exam results, making them comparable across schools.
- The [ACE rules](#) outline HSC school-based assessment integrity, task development, marking, appeals, and record-keeping. They cover malpractice policies, illness/misadventure procedures, task notifications, ranking, and restrictions on reporting final marks, ensuring compliance with NESA's assessment standards.
- HSC monitoring advice, Section 1.6 outlines HSC record-keeping requirements, including teaching programs, assessment documentation, interventions and work samples. Visit [Stage 6 – monitoring implementation and support](#) for more information.
- School-based assessment for the HSC contributes to a student's final mark and is designed to evaluate students' understanding and skills based on syllabus outcomes.

Contact us

To contact us you can email us via mathematics7-12@det.nsw.edu.au or reach out to our team via the [Mathematics Statewide Staffroom](#).

