



Key information for the Mathematics Extension 1 Stage 6 Syllabus (2017)

- Schools and teachers use syllabuses to develop educational programs for students. The [Mathematics Extension 1 Stage 6 Syllabus \(2017\)](#) requires students to study 12 subtopics over 120 hours of course time.
- School-based assessment specifications require schools to develop an assessment program for each Year 11 and Year 12 course. For school-based assessment requirements refer to [Assessment and reporting in Mathematics Extension 1 Stage 6](#).
- The Mathematics Extension 1 Stage 6 Syllabus (2017) has subject specific terms in a glossary that are important to know. The glossary can be found within the [Mathematics Extension 1 Stage 6 Syllabus \(2017\)](#) on page 62.

HSC examinations

- For details on the HSC Mathematics Extension 1 examination, refer to [Assessment and reporting in Mathematics Extension 1 Stage 6](#).
- The HSC examination will be based on the Mathematics Extension 1 Year 12 course and will focus on the course objectives and 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 time allowed is 2 hours plus 10 minutes reading time. The [Mathematics Advanced, Extension 1 and Extension 2 Reference Sheet](#) will be provided.
- 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 Advanced 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 Stage 6 HSC standards materials](#) can be found on the NESA webpages.
- 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 implementation of the Mathematics Extension 1 Stage 6 syllabus (2017).

- The [Planning programming and assessing mathematics 11-12](#) webpage contains sample scope and sequences, and the [Mathematics resources 11-12](#) webpage contains sample units of learning and assessment tasks for the Mathematics Extension 1 Stage 6 syllabus (2017).
- Resources can also be found on the [Mathematics Statewide Staffroom](#) page where there is a channel

for [Mathematics Extension 1](#). Here you will find sample scope and sequences, sample units of learning, sample assessment tasks and solutions to NESA exemplar questions.

- NESA also has a range of support materials on the [Mathematics Extension 1 Stage 6 Syllabus \(2017\)](#) webpage including topic guidance, sample scope and sequences, sample units, sample assessment schedules and sample formal assessment tasks.

Professional learning available

The Mathematics Curriculum Team provide a range of 'on demand' professional learning resources to support the implementation of the Mathematics Extension 1 Stage 6 Syllabus (2017) including:

- [Statewide Staffroom recordings](#)

A range of live online and face to face professional learning events are available throughout the year.

To view any upcoming events, visit the [Mathematics professional learning page](#) to stay up to date.

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

If you would like further information or support, please email mathematics7-12@det.nsw.edu.au or reach out to our team via the [Mathematics Statewide Staffroom](#).

