



Mathematics



Stage 6 Mathematics

Preliminary Courses

- Mathematics Standard
 - Mathematics Advanced
 - Mathematics Extension 1
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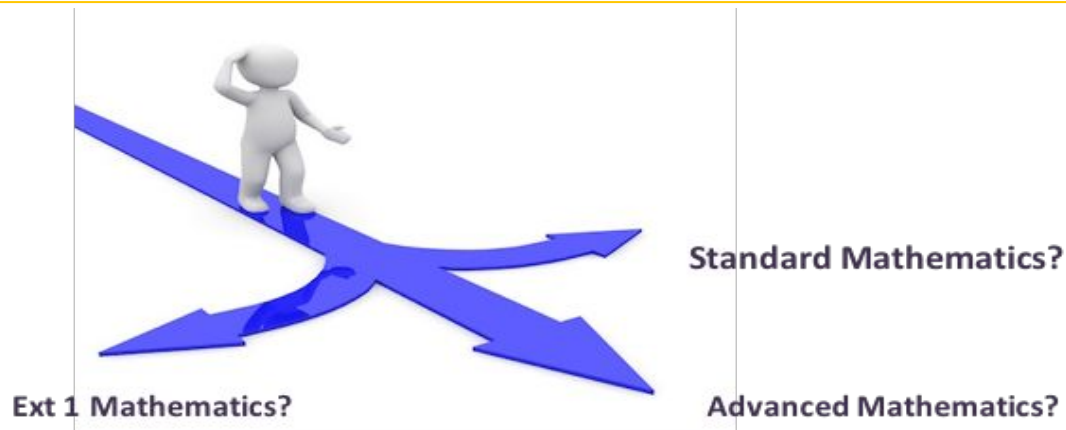
Stage 6 Mathematics

From 2019, the NSW
HSC Mathematics
Course Options are:

Year 11	Year 12
No Mathematics	No Mathematics
Mathematics Standard	Mathematics Standard 1 or Mathematics Standard 2
Mathematics Advanced	Mathematics Advanced
Mathematics Advanced and Mathematics Extension 1	Mathematics Advanced and Mathematics Extension 1
Mathematics Advanced and Mathematics Extension 1	Mathematics Advanced and Mathematics Extension 1 and Mathematics Extension 2



Which Maths course should I study?



I am often asked about whether it is advisable to study Mathematics Standard or Mathematics Advanced for HSC.



Mathematics Standard

Designed to support TAFE and other vocational courses.

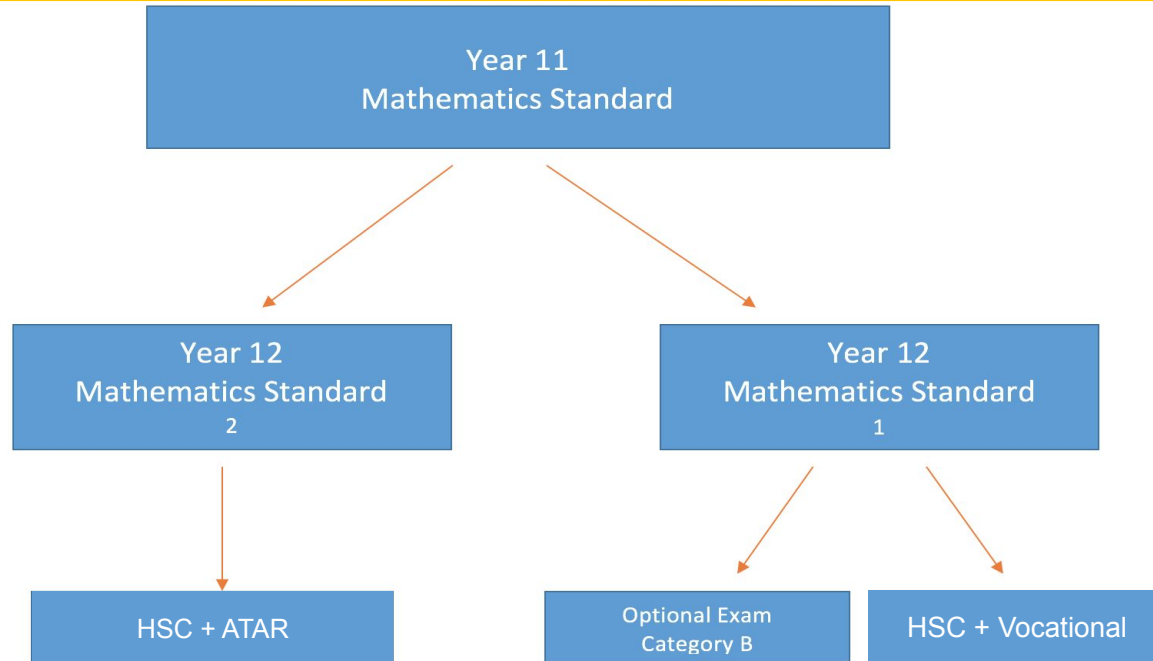
Provides an appropriate mathematical background for students requiring financial, statistical and practical problem - solving capabilities.

Builds a strong foundation for university studies in the areas of business, humanities, nursing, and paramedical sciences.

Studying Mathematics Standard in Years 11 and 12 will be beneficial in helping develop practical and analytical skills than not studying maths at all.



Mathematics Standard





Mathematics Advanced

Remains a Calculus-based course.

Provides a sufficient basis for further studies in Mathematics as a minor discipline at a tertiary level in support of courses such as life sciences or commerce.



Mathematics Advanced

You will need to have or be willing to develop superior knowledge of Algebraic manipulation to succeed in Mathematics Advanced.

If you did not study 5.3 Mathematics in Years 9 and 10 you will need to learn several new concepts, prior to the start of Year 11.

You might feel that your teacher moves quickly through topics. Some students may need to spend more time on mathematics than their other subjects.



Mathematics Advanced

Students intending to go to university to study any kind of STEM degree (Science, Technology, Engineering, Mathematics) should choose Mathematics Advanced and are strongly advised to include Mathematics Extension 1.

The University of Sydney has introduced prerequisites from 2019. Students will need to score at least a Band 4 in Mathematics Advanced (or an E3 in Mathematics Extension 1) in order to enter first year subjects in a wide range of economics, commerce, science and engineering degrees.



Scaling

Common content introduced to the new HSC courses means that performance in Mathematics Standard will be able to be directly compared with Mathematics Advanced.

So any previous advice relating to ATAR scaling of HSC examinations is no longer likely to be applicable in choosing 2019 courses.





Mathematics Extension 1

This is a 3 unit course that encompasses the entire Mathematics Advanced course.

Recommended as a foundation for tertiary studies in physical sciences or engineering.

Students with outstanding mathematical ability may consider undertaking Mathematics Extension 2 in Year 12.



Course selection

- Be realistic.
 - Enroll in a course best suited to your ability and interest.
 - The courses have changed considerably:
 - Mathematics Advanced is more demanding.
 - Mathematics Standard is more rigorous and more application based
 - Don't rely on scaling.
 - Choose a course that won't dominate your study load.
 - Balance is key!
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Prerequisites

Stage 6 Mathematics Course	Achievement Prerequisite
Extension 1	Top 20% of Level 5.3 students
Mathematics Advanced	75% of Level 5.3 students and the top 5% of Level 5.2 students
Mathematics Standard	Level 5.2 students and the top 30% of Level 5.1 students

