MATHEMATICS OPTIONS
YEAR 10 TO VCE UNITS 1-4

Introduction

- It should be noted that it is not necessary for students to undertake Mathematics to obtain their VCE. However, all students are encouraged to consider undertaking a maths at VCE level.
- All Year 10 students are required to take Maths as one of the core subjects.
- The selection of the appropriate Mathematics is a critical decision. All new students to the College will undertake testing to help establish their level of Mathematical competence. In addition, new students should consult their current Maths teacher to obtain a recommendation for the appropriate Maths.
- Students already enrolled at BHSSC should consult their current Maths teacher to obtain a recommendation for the appropriate Maths.
- Consult the graphic below

Maths Options at B.H.S.S.C.

**Year 10**

- **Mathematics**

**Foundation Maths**
(Units 1 and 2)
Note: No other VCE maths is advised after this course.

**Year 11**

- **Foundation Maths**
  (Units 1 and 2)
- **General Maths**
  (Units 1 and 2)
- **Maths Methods**
  (Units 1 and 2)

**Year 12**

- No continuation at Year 12
- **Further Maths**
  (Units 3 and 4)
- **Maths Methods**
  (Units 3 and 4)
- **Specialist Maths**
  (Units 3 and 4)
Year 10

Year 10 students MUST choose between either Year 10 Mathematics or Year 11 Foundation Mathematics. Year 11 Foundation Maths should only be considered by students who just want to complete a basic Maths course and who do not intend to complete a Year 12 Maths course. Please check your career pathway to ensure you do not need to complete any other VCE Maths course.

Year 10 Mathematics

- This subject offers students the opportunity to study either Foundation Maths, General Maths and possibly Maths Methods at year 11, subject to teacher recommendation.
- Students intending to study General Maths or higher in VCE are required to have a Ti-nspire CAS calculator, otherwise a Casio FX-82 calculator is necessary.

Units 1 & 2 (Year 11)

Foundation Maths

- An arithmetic-based course which will allow students to obtain a Year 11 Maths qualification. It does not have a continuation at Year 12.
- There is a strong emphasis on using maths in practical contexts.
- See “Fees Applicable” at the end of this document

for further information, click on the Study Summary link that will take you directly to the Victorian Curriculum and Assessment Authority (VCAA) website.

General Maths

- A medium level maths designed for those students planning to go on to Further Maths in Year 12.
- This course will NOT prepare students for Year 12 Maths Methods or Specialist Maths.
- Areas of Study include: Financial Arithmetic, Statistics, Graphs of Linear relations, Geometry, Trigonometry, Networks and Matrices.
- Students will require a Ti-nspire CAS calculator.

For further information, click on the Study Summary link that will take you directly to the Victorian Curriculum and Assessment Authority (VCAA) website.

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Maths Methods (CAS)
- A higher level maths designed for students who will require Maths Methods and/or Specialist Maths in Year 12.
- Areas of Study include: Functions, Graphs, Algebra, Rates of change, Calculus and Probability.
- Students will require a Ti-nspire CAS calculator.

For further information, click on the Study Summary link that will take you directly to the Victorian Curriculum and Assessment Authority (VCAA) website.

Units 3 & 4 (Year 12)

Further Maths
- This subject offers a general grounding of mathematics for post secondary pathways.
- The prerequisite for this subject is satisfactory completion of General Maths or Maths Methods at Year 11.
- Students will require a Ti-nspire CAS calculator.

For further information, click on the Study Summary link that will take you directly to the Victorian Curriculum and Assessment Authority (VCAA) website.

Maths Methods (CAS)
- Maths Methods is a prerequisite for some tertiary courses.
- Some students elect to enrol in both Further Maths and Maths Methods.
- Students will require a Ti-nspire CAS calculator.

For further information, click on the Study Summary link that will take you directly to the Victorian Curriculum and Assessment Authority (VCAA) website.

Specialist Maths
- Specialist Maths is a prerequisite for a number of university courses.
- Specialist Maths must be taken in conjunction with Maths Methods.
- Students will require a Ti-nspire CAS calculator.

For further information, click on the Study Summary link that will take you directly to the Victorian Curriculum and Assessment Authority (VCAA) website.

Fees Applicable
- Foundation Maths students are supplied with school printed notes and web based materials, rather than having to purchase a text book. There is a $20 fee to cover printing and web access costs.