

Ringwood Secondary College
2017 Course Planning Document

VCE Unit 2 Maths Methods

Time Allocation

This unit of work will consist of approximately 100 hours of which at least 50 hours will be class time. **To complete this unit of work satisfactorily, students must demonstrate each of the following learning outcomes.**

Learning Outcomes

Outcome 1

The student should be able to define and explain key terms and concepts from the Algebra, Circular Functions, Calculus and Probability areas of study. They should be able to apply this knowledge to a range of related mathematical routines and procedures.

Outcome 2

The student should be able to apply mathematical processes in non-routine contexts, including situations requiring problem solving, and analyse and discuss these applications of mathematics.

Outcome 3

The student should be able to select and use the numerical, graphical, symbolic and statistical functions of technology to develop mathematical ideas, produce results and carry out analysis in situations requiring problem solving, modelling or investigative techniques or approaches.

Assessment Tasks

1. Circular Functions SAC

The student is required to complete a test SAC. The SAC will consist of two parts: short answers (no summary book or CAS calculator), multiple choice and extended answer questions (summary book and CAS calculator allowed).

Weighting: This task is worth 16.7% of the overall grade

Time allocated to task: one period

Due: Term 3

2. Calculus SAC

The student is required to complete a test SAC. The SAC will consist of two parts: short answers (no summary book or CAS calculator), multiple choice and extended answer questions (summary book and CAS calculator allowed).

Weighting: This task is worth 80% of the overall Calculus grade.

Time allocated to task: one period

Due: Term 3 Week 10

3. AntiDifferentiation assignment.

Weighting: This task is worth 20% of the overall Calculus grade.

The calculus grade makes up 16.7% of the overall grade.

Due: Term 4 Week 1

4. Probability SAC

The student is required to complete a test SAC. The SAC will consist of two parts: short answers (no summary book or CAS calculator), multiple choice and extended answer questions (summary book and CAS calculator allowed).

Weighting: This task is worth 16.7% of the overall grade

Time allocated to task: one period

Due: Term 4, Week 5

5. Semester Examination

Students are required to apply knowledge and understanding of Circular Functions, Calculus, Probability and Matrices in two end-of-semester examinations. Examination One will consist of short answer questions. No Summary book or calculator will be allowed. Examination Two will consist of multiple choice and extended answer questions. Students may use a summary book and a CAS calculator. Exam One: 60 minutes and Exam Two: 90 minutes

Weighting: This task is worth 50% of the overall grade

Time allocated to task: 60 + 90 minutes

Due: Term 4, Week 7