

VCE MATHEMATICAL METHODS

UNITS 1 & 2

For more detail on this course please visit:

<https://www.vcaa.vic.edu.au/curriculum/vce/vce-study-designs/mathematicalmethods/advice-for-teachers/Pages/Index.aspx>

MATHEMATICAL METHODS

- Mathematical Methods Units 1 and 2 provide an introductory study of simple elementary functions of a single real variable, algebra, calculus, probability and statistics and their applications in a variety of practical and theoretical contexts. They are designed as preparation for Mathematical Methods Units 3 and 4.

CONTENT REQUIREMENTS FOR UNIT 1 & 2

- The areas of study for Mathematical Methods Unit 1 and 2 are:
 - 'Functions and graphs'
 - 'Algebra'
 - 'Calculus'
 - 'Probability and Statistics'
- **Each unit must cover four or more topics in their entirety from at least three different areas of study**

UNIT I TOPICS OF STUDY @ WRC

- Linear Relations and Graphs
- Quadratic Relations and Graphs
- Higher Order Relations and Graphs
- Rates of Change

UNIT 2 TOPICS OF STUDY @ WRC

- Calculus
- Probability
- Trigonometric Graphs

OUTCOMES

- Each assessment task will check that you have satisfactorily completed/demonstrated the following outcomes for that topic:
- **Outcome 1: define and explain key concepts** as specified in the selected content from the areas of study, and **apply a range of related mathematical routines and procedures**.
- **KNOW IT!**
- **Outcome 2: apply mathematical processes** in non-routine contexts, including situations requiring problem-solving, modelling or investigative techniques or approaches, and analyse and discuss these applications of mathematics.
- **USE IT!**
- **Outcome 3: select and use numerical, graphical, symbolic and statistical functionalities of technology to develop mathematical ideas, produce results and carry out analysis** in situations requiring problem-solving, modelling or investigative techniques or approaches.
- **USE TECHNOLOGY TO HELP DO IT!**

ASSESSMENT/SACS

- Tests
- Investigations
- Projects