

VCE VM Numeracy

2024

Course Outline

VCE Vocational Major Numeracy focuses on enabling students to develop and enhance their numeracy skills to make sense of their personal, public and vocational lives. Students develop mathematical skills with consideration of their local, national and global environments and contexts, and an awareness and use of appropriate technologies.

This study allows students to explore the underpinning mathematical knowledge of number and quantity, measurement, shape, dimensions and directions, data and chance, the understanding and use of systems and processes, and mathematical relationships and thinking. This mathematical knowledge is then applied to tasks which are part of the students' daily routines and practices, but also extends to applications outside the immediate personal environment, such as the workplace and community.

The contexts are the starting point and the focus, and are framed in terms of personal, financial, civic, health, recreational and vocational classifications. These numeracies are developed using a problem-solving cycle with four components: formulating; acting on and using mathematics; evaluating and reflecting; and communicating and reporting. (VCAA, 2022)

Unit 1

Students will develop their numeracy practices to make sense of their personal, public and vocational lives. They will develop mathematical skills with consideration of their local, community, national and global environments and contexts, and an awareness and use of appropriate technologies.

These units provide students with the fundamental mathematical knowledge, skills, understandings and dispositions to solve problems in real contexts for a range of workplace, personal, further learning and community settings relevant to contemporary society. (VCAA, 2022)

Students will explore the topics of number, shape, relationships and quantity and measures.

Unit 2

Students will develop and extend their numeracy practices to make sense of their personal, public and vocational lives. They will develop mathematical skills with consideration of their local, community, national and global environments and contexts, and identification and appropriate selection and use of relevant technologies.

These units provide students with the fundamental mathematical knowledge, skills, understandings and dispositions to solve problems in real contexts for a range of workplace, personal, further learning and community settings relevant to contemporary society. (VCAA, 2022)

Students will explore the topics of data, uncertainty, systematics and dimension and direction.

Unit 3

Students further develop and enhance their numeracy practices to make sense of their personal, public and vocational lives. Students extend their mathematical skills with consideration of their local, community, national and global environments and contexts, and the use and evaluation of appropriate technologies.

These units provide students with a broad range of mathematical knowledge, skills and understanding to solve problems in real contexts for a range of workplace, personal, further learning and community settings relevant to contemporary society. (VCAA, 2022)

Students will explore the topics of number, shape, relationships and quantity and measures.

Unit 4

Students further develop, enhance and extend their numeracy practices to make sense of their personal, public and vocational lives. Students extend their mathematical skills with consideration of their local, community, national and global environments and contexts, and use of, evaluation and justification of appropriate technologies.

These units provide students with a broad range of mathematical knowledge, skills and understanding to solve problems in real contexts for a range of workplace, personal, further learning and community settings relevant to contemporary society. (VCAA, 2022)

Students will explore the topics of data, uncertainty, systematics and dimension and direction.

Assessment

Assessment tasks may include the following:

- Investigations and Projects (eg. budgeting, invoices, receipts, money handling, loans, mortgages, interest, repayments, tables, data)
- Presentation/report/poster on a topic/project (eg. measurement, cost, labour)
- Portfolio - running an event (costings, budget, time, travel)

Additional information

This course is offered within the VCE VM. Students currently studying the VCE will not be able to choose this subject.

For further information

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Relevant links

For further information about the study design head to the [VCAA website](#).