

Mathematics Essential (General)

Students who have not met the minimum standard of numeracy through the Online Literacy and Numeracy Assessment (OLNA) are not eligible for this course

The Mathematics Essential General course focuses on using mathematics effectively, efficiently and critically to make informed decisions. It provides students with the mathematical knowledge, skills and understanding to solve problems in real contexts for a range of workplace, personal, further learning and community settings.

This course provides the opportunity for students to prepare for post-school options of employment and further training.

Mathematics

Courses

Course Structure

Year 11

Unit 1

- This unit provides students with the mathematical skills and understanding to solve problems relating to calculations, applications of measurement, the use of formulas to find an unknown quantity and the interpretation of graphs.
- Throughout this unit, students use the mathematical thinking process. This process should be explicitly taught in conjunction with the unit content
- Possible contexts for this unit are earning and managing money and Nutrition and health.
- The number formats for the unit are whole numbers, decimals, common fractions, common percentages, square and cubic numbers written with powers.

Unit 2

- This unit provides students with the mathematical skills and understanding to solve problems related to representing and comparing data, percentages, rates and ratios, and time and motion.
- Students further develop the use of the mathematical thinking process and apply the statistical investigation process.
- Students will be taught this course with an extensive range of technological applications and techniques. The ability to be able to choose when or when not to use some form of technology and to be able to work flexibly with technology are important skills.
- The number formats for the unit are whole numbers, decimals, fractions and percentages, rates and ratios.

Mathematics

Courses

Year 12

Unit 3

- This unit provides students with the mathematical skills and understanding to solve problems related to measurement, scales, plans and models, drawing and interpreting graphs, and data collection.
- Students use the mathematical thinking process and apply the statistical investigation process. Possible contexts for this unit are Construction and design, and Medicine.
- The number formats for the unit are positive and negative numbers, decimals, fractions, percentages, rates, ratios, square and cubic numbers written with powers and square roots.

Unit 4

- This unit provides students with the mathematical skills and understanding to solve problems related to measurement, scales, plans and models, drawing and interpreting graphs and data collection.
- Students use the mathematical thinking process and apply the statistical investigation process. Possible contexts for this unit are Construction and design, and Medicine.
- The number formats for the unit are positive and negative numbers, decimals, fractions, percentages, rates, ratios, square and cubic numbers written with powers and square roots.