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11 MAP — MATHEMATICS APPLIED

RECOMMENDED LEVEL OF ATTAINMENT

By invitation from the HOD, based on Year 10 results.

INTRODUCTION

This course is designed for those students who require practical and/or applied mathematical skills – possibly considering pursuing training in a trade.

The emphasis is for students to develop the mathematical skills necessary for life beyond school and to meet the numeracy requirements for Level 1 NCEA.

CONTENT AND SKILLS

Knowledge and skills in the following areas will be developed through considering mathematics in real life:

- Fractions, ratio, proportion, percentages
- Whole numbers and decimals
- Tables and graphs
- Measurement
- Area and volume
- Time and money
- Statistics
- Geometry

ASSESSMENT

Students work towards achieving the three numeracy standards: Number, Measurement, Statistics, worth 10 credits.

Some students may also be entered in two Level 1 internal assessments

NCEA STANDARDS – 11MAP

Not all standards will necessarily be assessed.

	Level	Credits	L1 Lit.	L1 Num.	
Internal					
26623 v3	1	4	no	no	Use number to solve problems
26626 v3	1	3	no	no	Interpret statistical information for a purpose
26627 v3	1	3	no	no	Use measurement to solve problems
21905v3	1	6	no	no	

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12 MAP — MATHS APPLIED

RECOMMENDED LEVEL OF ATTAINMENT

Entry to this course is by invitation, acknowledging achievement and effort in Year11. Students who have done 11MAP normally progress into this course.

INTRODUCTION

The course contains Level 2 Unit Standards which, though challenging, provide a good foundation for students who may enter the construction or engineering vocations.

CONTENT AND SKILLS

- operations on whole numbers and decimals
- conversions between and using fractions, decimals and percentages
- area and volume calculations
- Pythagoras and trigonometry
- using formulae
- forces and friction
- measurement
- geometry

NCEA STANDARDS – 12MAP

Not all standards will necessarily be assessed.

	Level	Credits	UE Rdg.	UE Wrtg.	
Internal					
24361 v2	2	3	no	no	Apply mathematical processes to BCATS projects
24378 v1	3	4	no	no	Perform building calculations