

ACADEMIC PROGRAMS

Semester I

Year 12

Mathematics B

Disclaimer

Under QSA guidelines summative assessment depends on the fullest and latest information on a student's performance, based on a process of continuous assessment. This gives a stability to teacher judgments and shows how students progress. Thus formative assessment informs the end-of-course summative judgment.

And

Unless otherwise specified Year 11 Assessment is Formative and Year 12 Assessment is Summative.

FAIRHOLME MATHEMATICS DEPARTMENT

Course: YEAR 12 MATHEMATICS B

Outline: SEMESTER 1, 2017

Term One

- **Rates of Change** – Review of Differentiation, gradient function, Rules for differentiation, tangents and normals (Ex. 1C-D, 2B)
- **Periodic Functions 2** – Radians, Unit Circle, Exact values, Equations, Modelling (Ex. 5A-F)
- **Exponential and Logarithmic Functions**- Index Review, and equations, Log Review and equations, Modelling (Ex. 3A-G)

Term Two

- **Rates of Change**- Inverse functions, derivatives of exponential. Log and trig functions and applications (Ex. 4A-E, 6A-G)
- **Introduction to Integration** – Antiderivative and integration (Ex. 7A-D)

Assessment Summary:

Term One

Week	Date	Assessment Task	Formative/Summative
9-10	22-27 March	Exams	Summative

Term Two

Week	Date	Assessment Task	Formative/Summative
4-6	9-23 May	Extended Problem Solving	Summative
7-8	31 May -7 June	Exams	Summative

