

# Mathematics

# Level 1

## Course Requirements:

This is a compulsory subject at Level 1.

## Aims:

The aim of this course is to continue development of mathematical understanding, skills and knowledge from Year 10. By studying Mathematics, students develop the ability to think creatively, critically, strategically and logically. They learn to organise, carry out procedures flexibly and accurately, communicate information and estimate with reasonableness. Mathematics has a broad range of applications in everyday life and in the workplace.

## Course Content:

The course will cover the topics in the areas of number, algebra, trigonometry, probability and statistics. The course will enable students to gain their ten credits needed for NCEA numeracy requirements. The exact course content will depend on the students' ability and will be from a selection of the standards shown in the assessment chart.

## Where can this subject take you?

This course will prepare students to study Mathematics at Level 2 NCEA. It will also support learning in other areas, particularly Technology, Science and Commerce.

## Further Assessment Opportunity and Resubmission

(Refer to student Handbook for more information)

A further assessment opportunity occurs after you have submitted work / sat a test for an assessment; you do a new assessment after further learning has taken place. For this course there will be one further assessment opportunity for each standard. A resubmission can be offered to you by the teacher if they believe you can correct errors or omissions in your work in a short period of time; it does not involve a new assessment. A resubmission must take place before the teacher gives any feedback on the work done. There can be only one resubmission.

## Appeals (Please refer to student Handbook for more information)

If you are unhappy with any of your results you should discuss this with your teacher. If you are still unhappy then an Appeals form should be completed; this is available from the HoF; forms need to be completed and returned to your HoF within 5 school days of receiving your grade. If you are still not happy you can then see the Principal's Nominee. At NO time, during this process, should you contact NZQA.

## Head of Faculty

Mr Fenn                      p.fenn@jchs.school.nz

## Assessment Chart

Number	Title	Credits	US/AS	Internal/ External	Format	Literacy	Numeracy	Indicative date
91036	Investigate bivariate numerical data using the statistical enquiry cycle.	3	AS	int	Test	L1Lit	Yes	Term 1
91035	Investigate a given multivariate data set using the statistical enquiry cycle	4	AS	int	Test	L1Lit	Yes	Term 1
91026	Apply numeric reasoning in solving problems	4	AS	Int	Test		Yes	Term 2
91038	Investigate a situation involving elements of chance	3	AS	Int	Test	L1Lit	Yes	Term 2
91032	Apply right angled triangles in solving measurement problems	3	AS	Int	Test		Yes	Term 3
91029	Apply linear algebra in solving problems	3	AS	int	Test		Yes	Term 3
91027	Apply algebraic procedures in solving problems	4	AS	Ext	Exam		Yes	Term 3
91034	Apply transformation geometry in solving problems	2	AS	Int	Test		Yes	Term 4
91037	Demonstrate understanding of chance and data	4	AS	Ext	Exam		Yes	Term 4
26623	Use number to solve problems	4	US	Int	Portfolio		Yes	Term 1-3
26626	Interpret statistical information for a purpose	3	US	Int	Portfolio		Yes	Term 1-3
26627	Use measurement to solve problems	3	US	Int	Portfolio		Yes	Term 1-3

**Note:** A selection of these standards will be offered depending on the work ethic and ability of the students in the class.

### Entry into externals will be based on:

Students having achieved a Merit or Excellence in each of the first three internal achievement standards. A high attendance record is also expected.