



MATHEMATICS DEPARTMENT

"The essence of mathematics lies in its freedom."

Albert Einstein

Mission Statement

As a faculty, our mission is to:

- Inspire and engage students so that they become confident and creative users and communicators of mathematics.
- Develop in each student the skills to enable them to investigate, interpret and analyse situations in their personal and working lives and as active citizens. We encourage them to 'think about their thinking'.
- Help all students develop 'The Leader in Me' by encouraging them to take responsibility for their own actions and their own learning.
- Develop in each student an enjoyment and appreciation of mathematics and of lifelong learning.

Our Results

In 2016 our results showed great individual development, learning and growth from the start of Stage 6. Our results have been consistently outstanding over many years. In 2013 we were placed 1st in the State in General Mathematics. Excluding selective schools, our HSC results in recent years have been as follows:

- 2015 - 7th in the State
- 2014 - 23rd in the State
- 2013 - 11th in the State
- 2012 - 5th in the State
- 2011 - 7th in the State
- 2010 - 1st in the State
- 2009 - 3rd in the State

Extra Curricular Activities

Our students have the opportunity to participate in a variety of activities outside the classroom. These include the Investigating Mathematics competition run by the Mathematics Association of NSW, as well as the Da Vinci Decathlon and various other mathematics competitions and challenges.

Enrichment

We have a policy of enriching and extending students at all levels where appropriate. Enrichment of students is encouraged within the classroom and many students participate in the Australian Mathematics Competition or the UNSW ICAS Competition annually.

Enrichment lessons are also run outside the classroom for talented students in Years 7-11. These lessons usually cover topics of interest which are not normally part of the Mathematics syllabus. Students from these classes are encouraged to participate in the Mathematics Challenge run by the Australian Mathematics Trust. Students may also be selected to participate in the HICES Mathematics Competition which our Junior team won in

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MATHEMATICS DEPARTMENT *(CONTINUED)*

Support

Students who have difficulty with Mathematics are provided with excellent support. Classes are kept small for weaker students to allow for more individual attention. Special programs are also developed for individual students if necessary. Students from any level of Mathematics have opportunities outside of class time from their teachers should they require further assistance.

STEM

The Mathematics department has been working with the Science and TAS departments to develop STEM projects for Years 7 & 8. We also run activities to encourage students to work mathematically within real world scenarios and problems that are hands on, fun and challenging.

The Australian Curriculum

Next year we will see the implementation of a new and exciting Stage 6 Syllabus for Mathematics. Our staff will be preparing for these changes throughout the year to ensure our students have the best opportunities in the new courses.

