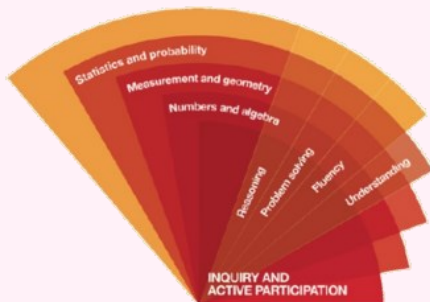# MATHEMATICS DEPARTMENTAL

## Years 7 to 10 National Curriculum

One of the biggest and most important challenges in education has commenced, and that is the implementation of the new National Curriculum. In Year 7 the proficiency strands of Understanding, Fluency, Problem Solving and Reasoning will be an integral part of the Mathematics content across the three new content strands:  Number and Algebra  Measurement and Geometry  Statistics and Probability The Mathematics Department at Holsworthy High School has already begun building recourses, writing programs, formulating new and improved assessments, building scope and sequences, and attending Departmental information sessions in readiness for the new syllabus.

## Additional Programs and Support in Mathematics for Year 7

### Math Lab

A successful initiative run by the Mathematics Department is '**Maths Lab'**. This new enterprise is introduced to Year 7 classes for only one period a fortnight. Its main aims are:

* To introduce students in Year 7 to the many aspects of Mathematics found in diverse contexts

* To make Mathematics more fun and hence engaging

* To steer away (for one period) from regular class work and make the students look forward to diverse concepts in the subject

* Introduce skills such as 'Thinking Mathematically' and 'Problem Solving'

We found that students enjoyed many of the challenges and experiments run in 'Maths Lab' and looked forward to this period. It has also shown them that Mathematics in context has many real world applications – and can be fun!

### AUSTRALIAN MATHEMATICS TRUST
*Enriching Mathematics Learning*

The **Australian Mathematics Competition** is a widely recognised, highly popular and world wide competition. The results from the Australian Mathematics Competition have been very encouraging over the years with Holsworthy High obtaining many Distinction, Credit and Proficiency Awards. We deem the competition so important that the entry fee for all students is paid for by the school.

### Math Boost
### Math Boost

This initiative was established in 2012 by the Mathematics Department in the way of a **free afternoon tutoring class.** The class is open to students from **Years 7 to 10**.

It is run on one afternoon each week from 3.00pm to 4.00pm. During this time, our Mathematics staff volunteer their time to assist students with any difficulties they may have with their homework, extension work and assignments.

## Beyond the Junior School

Once a student enters Year 11 and 12 they may choose to study Mathematics. The Board of Studies has many approved courses in mathematics and they include:

### Mathematics Standard 1 and 2

The opportunities for creative thinking, communication and contextualised problem-solving within the Preliminary Mathematics Standard course, the HSC Mathematics Standard 2 course and the HSC Mathematics Standard 1 course assist students in finding solutions for the broad range of problems encountered in life beyond secondary schooling.

### Mathematics Advanced

This course has been constructed on the assumption that students have studied the content and achieved the outcomes of the Mathematics Years 7–10 Syllabus (2012) up to, and including, the content and outcomes of Stage 5.2. It is a sufficient basis for further studies in mathematics as a minor discipline at tertiary level in support of courses such as the life sciences or commerce.

### Extension 1 Mathematics

The Mathematics Extension 1 course has been constructed on the assumption that students have studied the content and achieved the outcomes of the Mathematics Years 7–10 Syllabus (2012) up to, and including, the content and outcomes of Stage 5.3. It is a recommended minimum basis for further studies in mathematics as a major discipline at a tertiary level, and for the study of mathematics in support of the physical and engineering sciences.

### MATHS FACULTY
Mr S. Wiles- Head Teacher
Mr E. Osborne          Mr Rao
Mr A. Abhilash         Mr Nguyen
Mr C. Tan