Holsworthy High School

MATHEMATICS STANDARD

Maths Faculty

The **Mathematics Standard** courses are focused on enabling students to use mathematics effectively, efficiently and critically to make informed decisions in their daily lives. They provide students with the opportunities to develop an understanding of, and competence in, further aspects of mathematics through a large variety of real-world applications for a range of concurrent HSC subjects.

Mathematics Standard 1 is designed to help students improve their numeracy by building their confidence and success in making mathematics meaningful. Numeracy is more than being able to operate with numbers. It requires mathematical knowledge and understanding, mathematical problem-solving skills and literacy skills, as well as positive attitudes. When students become numerate they are able to manage a situation or solve a problem in real contexts, such as everyday life, work or further learning. This course offers students the opportunity to prepare for post-school options of employment or further training.

Mathematics Standard 2 is designed for those students who want to extend their mathematical skills beyond Stage 5 but are not

seeking the in-depth knowledge of higher mathematics that the study of calculus would provide. This course offers students the opportunity to prepare for a wide range of educational and employment aspirations, including continuing their studies at a tertiary level.

Mathematics Standard—Preliminary

The Year 11 course is organised in topics, with the topics divided into subtopics. The Year 11 course is undertaken by all students intending to study either the Mathematics Standard 1 Year 12 course or the Mathematics Standard 2 Year 12 course .

Year 11 Course - (120 Hours)	
Topics	**Subtopics**
Algebra	**MS-A1** Formulae and Equations
	MS-A2 Linear Relationships
Measurement	**MS-M1** Applications of Measurement
	MS-M2 Working with Time
Financial Mathematics	**MS-F1** Money Matters
Statistical Analysis	**MS-S1** Data Analysis
	MS-S2 Relative Frequency and Probability

Year 12 Course (120 Hours)	
Topics	**Subtopics**
Algebra	**MS-A3** Types of Relationships
Measurement	**MS-M3** Right-angled Triangles
	MS-M4 Rates
	MS-M5 Scale Drawings
Financial Mathematics	**MS-F2** Investment
	MS-F3 Depreciation and Loans
Statistical Analysis	**MS-S3** Further Statistical Analysis
Networks	**MS-N1** Networks and Paths

Mathematics Standard 1—HSC

Year 12 Course (120 Hours)	
Topics	**Subtopics**
Algebra	**MS-A4** Types of Relationships
Measurement	**MS-M6** Non-right-angled Trigonometry
	MS-M7 Rates and Ratios
Financial Mathematics	**MS-F4** Investments and Loans
	MS-F5 Annuities
Statistical Analysis	**MS-S4** Bivariate Data Analysis
	MS-S5 The Normal Distribution
Networks	**MS-N2** Network Concepts
	MS-N3 Critical Path Analysis

Continuum Of Learning

The Place of the Mathematics Standard Stage 6 Syllabus ibn the K-12 Curriculum

Students bring to school a range of knowledge, understanding and skills developed in home and prior-to-school settings. The movement into Early Stage 1 should be seen as a continuum of learning and planned appropriately.

The Early Years Learning Framework for Australia describes a range of opportunities for students to develop a foundation for future success in learning.
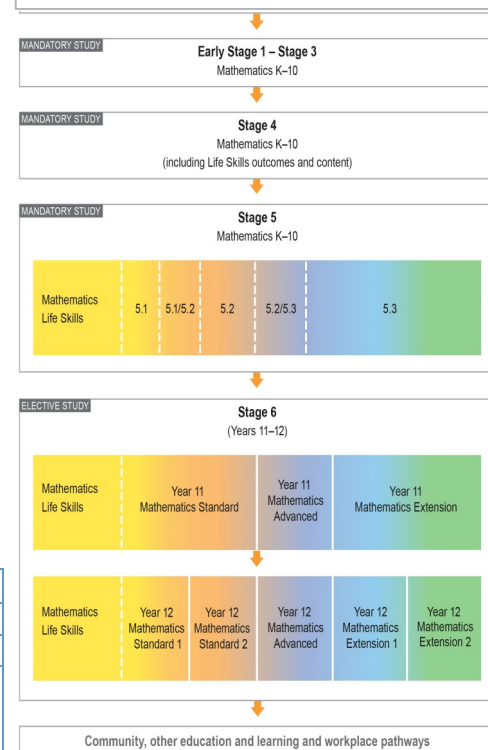
MATHS FACULTY

Mr S. Wiles- Head Teacher

Mr E. Osborne   Mr Rao

Mr A. Abhilash   Mr Nguyen

Mr C. Tan