

Bowral High School

Exceptional learning opportunities for all



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Mathematics Faculty

information for parents & students

click on the buttons on this page to quickly navigate to information about teachers, courses, assessment etc

your child's mathematics teacher can be contacted at school on 48612255

mathematics staff information

Mr Michael Murton

Relieving Head Teacher
Mathematics
10MAT.2M
11MAT
11MX
12MAG.2M

Mr Chris Hayden

7MATA 8MATB 9MAT.2H 10MAT.3H 11MAS.H

Ms Alison Walker

7MATL 8MATR 9MAT.3W 10MAT.1W 12MAG.2W

Ms Naomi Atkins

7MATR 7MATB 8MATL 9MAT.2A 10MAT.2A 11MAS.A

Ms Lisa Mauger 8MATO

Mr Shane Bleasdale

9 mat 1B 10 mat 2B 12MAT 12MX1 12MX2

Mrs Kim Kelly

Relieving Deputy Principal 9MAT.1K

Mr Rodney Van Bentum

7MATO 8MATA 9MAT.1V 10MAT.2V 11MAG.V and 12MAG.1V

assessment

Student achievement is measured within individual classes and across whole year groups.

Teachers determine individual student progress in achieving outcomes on an ongoing basis, using a variety of tools including teacher observation, homework tasks, assignments, class participation, completion of set tasks and topic tests.

Major Semester Tests and Common Assignments assess student performance within their year group.

Year 7 - 9 have a major semester test in terms 2 and 4. The tests are held in approximately week 4 of these terms. Year 7 - 9 will also complete one assignment based assessment during the year. Year 10 have four common assessments.

Students will be notified two weeks before each task. This notification will be in writing and provides detail about the content and timing of the task.

These tasks, along with teacher recommendations, will also be used in determining Mathematics classes for the following year.

reporting

Student progress in mathematics is reported twice yearly using the school reports.

Parents are invited to speak to their child's teacher at official parent/ teacher evenings.

Parents can also speak to their child's teacher at any time by contacting the school on 4861 2255.

class placement

Information from the previous year is used to stream students into mathematics classes for years 9 and 10.

This allows students to work at a level suited to their pre-existing levels of knowledge and skill.

The class teacher will select activities to ensure all students are working toward achieving relevant outcomes and are extending their confidence and skills in mathematics.

If you have any concerns about your child's mathematics class placement please call Mr Murton on 4861 2255.

homework

Specific homework will be given at the classroom teacher's discretion. All students benefit from regular review of class work and from following a regular at home study program. The completion of homework is considered to play an important part in building student confidence and skill levels in Mathematics.

mathematics competitions

Students at Bowral High School have the opportunity to enter two mathematics competitions.

Australian Mathematics Competition http://www.amt.edu.au/

NSW University ICAS Competition http://www.eaa.unsw.edu.au/

calculators and other equipment for mathematics classes

<u>Calculators</u> and their effective use are an important part of High School Mathematics courses.

Students need to be able to complete calculations with and without calculators.

We strongly recommend you purchase a calculator through the Finance Office at Bowral High where we sell an approved calculator at cost price. (\$20 with a geometry set)

This calculator is suitable for use through to Year 12 and beyond. Calculators purchased elsewhere may not have the required features.

Calculators may be used in some assessment tasks and it is expected that students will have their own calculator. Calculators are also required in NAPLAN and HSC exams.

Phones are not a suitable replacement for calculators at school.

<u>Computers</u> may be used in some mathematics lessons.

Geometry Equipment: All students are expected to have a set of geometrical instruments consisting of a pair of compasses, a protractor, a set square, a ruler and a pencil.

Work Books: We recommend students purchase a 5mm Grid Book for use in Mathematics. Loose-leaf folders are not permitted in junior Mathematics.

general faculty information

year 7 scope and sequence for 2018

year 7 course information

erm 1 – 10 weeks	3	Δ	5	6	7	8	9	10	11	
ental and written meth ld, subtract, multiply & e order of operation, a	hods of arithmetic a divide whole numbers (in associative, communitive a	MA3-5NA, MA3-6NA, MA4-4	NA generalise numbi use letters to rep recognise and use	Introducto 10 le MA4-1WM, MA4-2WM er properties to operate w	ssons , MA4-3WM, MA4-8NA th algebraic expressions ons	comp add, s expre	MA3-7NA, MA4-1V are fractions, mixed numera subtract, multiply and divide as one quantity as a fraction	Decimals (& Percentag 10 lessons VM, MA4-2WM, MA4-3WM, I ils by placing fractions on an in fractions	es) MA4-5NA nteger number line	
erm 2 – 10 weeks					760	-	leis)	7000	50000	
1	2	3	4	5	6	7	8	9	10	
Indices with Numerical Bases 9 lessons MA4-1WM, MA4-2WM, MA4-3WM, MA4-9NA investigate index numbers (INDEX LAWS - introduced in year 8) represent whole numbers as products of primes find square roots and cube roots determine and apply divisibility tests		л, MA4-9NA	3 fessons	NAPLAN 3 lessons 10 lessons 10 lessons MA4-1WM, MA4-2WM, MA4-3WM, M review types of angles classify triangles describe quadrilaterals identify line and rotational symmetry use angle sum of triangle and quadrilateral solve numerical problems using 2d shapes			6 Je		MA4-3WM, MA4-15MG and 24-hour time within a	
erm 3 – 10 weeks	2	2	4	ε.	6	.7	9	9	10	
5 le		Measurement Task 4 lessons an in-class assessment of time & length measuremen		1: MA4-1WM, MA4-2' ions, decimals & percenta antity	centages 2 lessons WM, MA4-3WM, MA4-5NA		MA4-1V convert between me establish and use for	ilaterals & Triangles, & 8 lessons WM, MA4-2WM, MA4-3WM, I	Unit Conversion	
erm 4 – 10 weeks										
1	2	3	4	5	6	7	8	9	10	
Linear Relationships 9 lessons MA4-1WM, MA4-2WM, MA4-3WM, MA4-11NA scate and describe points on Cartesian plane using coordinates escribe translations and reflections in an axis on the Cartesian plane		MA4-11NA g coordinates coll he Cartesian plane use	appropriate statistical di	Data Collection & Representation 12 lessons MA4-1WM, MA4-2WM, MA4-3WM, MA4-19SP , represent and interpret single sets of data propriate statistical displays pic includes an in-class assessment task				Simple Probability 6 lessons MA4-1WM, MA4-2WM, MA4-3WM, MA4-21SP determine sample space for single step experiments with equally likely outcomes determine probabilities of events in single step experiments use probability of complementary events to solve problems		

Students in all year 7 mathematics classes follow this pattern of study.

The depth covered will vary from class to class and will be determined by individual class teachers.

This course follows the NSW version of the Australian Curriculum.

year 8 course information

year 8 scope and sequence 2018

1	2 3	4	5	6	7	3	8%	9	10	(11)
Computation with Integers 5 lessons MA4-1WM, MA4-2WM, MA4-3WM, MA4-4NA THIS TOPIC IS A REVIEW OF CONTENT FROM YEAR 7	Fractions, Decimals & Percentages 5 lessons MA4-1WM, MA4-2WM, MA4-3WM, MA4-5NA THIS IS A REVIEW OF CONTENT FROM YEAR 7	MA4-SNA, MA	oraic Techniques 2 9 lessons 4-1WM, MA4-2WM, MA4-3W factorise simple algebraic e	Transmission in	MA4-1WM, MA4-2WM	mference & P 9 lessons 1, MA4-3WM, MA4-3 ference calculatio	5NA, MA4-12MG	Angle Relationships, Paral 9 lessons MA4-1WM, MA4-2WM, MA4-3WM, corresponding, alternate and co-interior; d that lines are parallel; solve numeri		i 4-3WM, MA4-18MG erior; determine and just
erm 2 – 10 weeks										
1	2 3	4	5	-	6	7	3	8	9	10
Area of Quadrilaterals & Circles 8 lessons MA4-1WM, MA4-2WM, MA4-3WM, MA4-13MG Review area of quadrilaterals. Circle areas is main focus.		Indices 8 lessons MA4-1WM, MA4-2WM, MA4-3WM, MA4-9NA Positive integers and zero indices, numerical bases		15	Linear Relationships 2 8 lessons MA4-1WM, MA4-2WM, MA4-3WM, MA4-11M Graphing linear relationships, equations		4-11MA	Volume B lessons MA4-14MG, MA4-1WM, MA4-2WM, MA4-3WM Convert between metric units of volume, capacity. Solve volumed and capacity problems.		
Term 3 – 9 weeks 4 days	5									
1	2 3	4	5		6	7		8	9	10
Equations 9 lessons MA4-10NA, MA4-1WM, MA4-2WM, MA4-3WM Solve simple linear equations using algebraic techniques. Solve simple quadratic equations of the form $x = c^2$		Pythagoras' Theorem 7 lessons MA4-16MG, MA4-1WM, MA4-2WM, MA4-3WM Apply Pythagoras' theorem to find sides in right- angled triangles and solve problems.		Rates & Ratios 7 lessons MA4-7NA, MA4-1WM, MA4-2WM, MA4-3WM Apply ratios and rates to solve problems. Interpret and draw distance/time graphs.		lems. Interpret	Measurer Assessm 4 lesson	ent	8 le MA4-215P, MA4-1WM	ability ssons , MA4-2WM, MA4-3WM d events, Venn diagrams.
Term 4 – 10 weeks										
1	2 3	4	5		6	7		8	9	10
10 lessons MA4-6NA, MA4-1WM, MA4-2WM, MA4-3WM MA4-1W			2.7779	10 lessons MA4 2WM, MA4	I, MA4 3WM, MA4 20SP MA4-17MG, MA4-1WM, MA4-2WM, MA4-			I-3WM		

year 9 course information

year 9 scope and sequence for 2018

Students in year 9 mathematics classes follow one of three broad patterns of study.

For each broad pattern the depth covered will vary from class to class and will be determined by individual class teachers. In 2018 year 9 students will follow the NSW version of the Australian Curriculum.

Students who had not completed stage 4 outcomes by the end of year 8 will complete a stage 5.1 course during years 9 and 10.

In 2018 there are two parallel year 9 classes that are following this pattern of study. They are:

9MAT.1K (Mrs Kelly) 9MAT.1V (Mr Van Bentum) Students who had mostly completed stage 4 outcomes by the end of year 8 will complete a stage 5.2 course during years 9 and 10.

In 2018 the year 9 classes that are following this pattern are:

9MAT.2A (Miss Atkins) 9MAT.2B (Mr Bleassdale) 9MAT.2H (Mr Hayden) Students who successfully completed stage 4 outcomes during year 8 will complete a stage 5.3 course during years 9 and 10.

In 2018 the year 9 class that is following this difficult and advanced pattern is:

9MAT.3W (MS Walker)

The course followed by students during years 9 and 10 has implications for the mathematics course that students will successfully attempt in years 11 and 12.

Only students who complete stage 5.3 will be able to complete the difficult Mathematics Advanced course in year 11.

If you have any questions about mathematics classes, please contact Mr Murton on 4861 2255.

year 9 stage 5.1 scope & sequence

year 9 stage 5.2 scope & sequence

year 9 stage 5.3 scope & sequence

year 10 course information

year 10 scope and sequence

Students in year 10 mathematics classes follow one of three broad patterns of study.

For each broad pattern the depth covered will vary from class to class and will be determined by individual class teachers. In 2016 the year 10 courses follow the NSW version of the Australian Curriculum.

Students who were working to complete stage 4 and stage 5.1 outcomes during year 9 will continue to complete a stage 5.1 course during year 10. During term 4, students will be challenged to attempt harder 5.2 work.

In 2018 the year 10 classes that are following this pattern are10MAT.1B(Mr Bleasdale) and10MAT.1W(Ms Walker)

Students who were successfully working to complete stage 5.2 outcomes, or who found the stage 5.3 content too difficult, during year 9 will follow the stage 5.2 course during year 10. During term 4, students will be challenged to attempt some harder 5.3 work.

In 2018 the year 10 classes that are following this pattern are:10MAT.2A (Atkins) 10MAT.2B (Bleasdale) 10MAT.2M (Murton)

Students who were successfully working to complete stage 5.3 course during year 9 will continue to follow this course during year 10.

In 2018 the year 10 class that is following this pattern is: 10MAT.3H (Mr Hayden)

The course followed by students during years 9 and 10 has implications for the mathematics course that students will successfully attempt in years 11 and 12.

Only students who complete stage 5.3 will be able to complete the difficult Mathematics (advanced) course in year 11.

See the year 11 RoSA page for more information.

If you have any questions about mathematics classes, please contact Mr Murton on 4861 2255.

year 10 stage 5.1 scope & sequence

year 10 stage 5.2 scope & sequence

year 10 stage 5.3 scope & sequence

year 11 scope and sequence

The mathematics faculty believe it is important for students to continue to study mathematics during years 11 and 12.

Mathematics provides students with skills that are relevant in 21st century living and that are useful in the majority of occupations.

Students in all year 11 mathematics classes follow Board Developed Courses in Mathematics.

There are three levels of difficulty in the mathematics courses offered at Bowral High School.

Students who are completing 'humanities' courses like Legal Studies, Modern History, Biology, Visual Arts and Music and who do not intend to complete Mathematics or Science courses at university; or those students who intend to complete further education at TAFE will find that the PRELIMINARY MATHEMATICS Standard course is suited to their needs. The content of the course is also engaging for most students.

In 2018 the year 11 classes that are completing PRELIMINARY MATHEMATICS Standard are:

11MAS.V (Mr Van Bentum) 11MAS.A (Miss Atkins) 11MAS.H (Mr Hayden) 11MAS.B

(Mr Bleasdale)

* In year 12 the Preliminary
Mathematics Standard course splits
to follow two distinct pathways.

The HSC Standard 2 course is a Board DEVELOPED course that is formally examined at the HSC and contributes to units that can be counted in the ATAR.

The HSC Standard 1 course is a Board ENDORSED course - the examination at the HSC is optional and contributes to an ATAR. TThe Standard 1 course is recomemded for students who are struggling and need to develop their mathematical skills to allow them to complete further education at TAFE or who are seeking employment.

Students must consider carefully their pattern of study to ensure they are meeting requirements for ATAR, HSC or RoSA.

Students who completed stage 5.3 in year 10 and who enjoy algebra should consider the PRELIMINARY MATHEMATICS course. This course is a minimum standard for most science courses at university.

Students who begin this course do have the option of changing down to Mathematics Standard.

In 2018 the year 11 classes that are following this pattern are:

11MAT (Mr Murton)

preliminary mathematics

year 11 course information

Students who achieved highly in stage 5.3 outcomes and who are completing subjects like Physics, Engineering Studies and who are also completing Preliminary Mathematics should consider the Extension 1 course.

This course is intended for those students who are most capable in mathematics and who would like to complete engineering or science at university.

In 2018 the year 11 class that is following this pattern is:

11MX (Mr Murton)

preliminary mathematics extension

preliminary mathematics Standard

year 12 scope and sequence

Following successful completion of their preliminary mathematics course most students elect to continue with mathematics into the HSC.

HSC students at Bowral High School can choose to follow mathematics at five broad levels, including Mathematics General 1 and Mathematics Extension 2.

year 12 course information

Students who need to develop their mathematics skills to provide work readiness skills are encouraged to complete HSC MATHEMATICS GENERAL 1.

This is a BOARD ENDORSED COURSE and has implications for requirements for HSC. It does not count in the minimum 6 units of board developed courses. However most students are not affected by this issue.

In 2018 the year 12 class that is completing HSC MATHEMATICS GENERAL 1 is:

12MAG.1V (Mr Van Bentum)

GENERAL 1 scope & sequence

Students who completed Preliminary Mathematics General or Preliminary Mathematics are able to complete HSC MATHEMATICS GENERAL 2.

In 2018 the year 12 classes that are following this course are:

12MAG.2M (Mr Murton) 12MAG.2W (Ms Walker)

GENERAL 2 scope & sequence

Students who completed Preliminary Mathematics are able to continue with HSC MATHEMATICS.

In 2018 the year 12 class that is following this pattern is:

12 mat

(Mr Bleasdale)

mathematics scope & sequence

Students who completed Preliminary Mathematics Extension are able to continue with HSC MATHEMATICS EXTENSION 1.

In 2018 the year 12 class that is following this pattern is:

12 max1

(Mr Bleasdale)

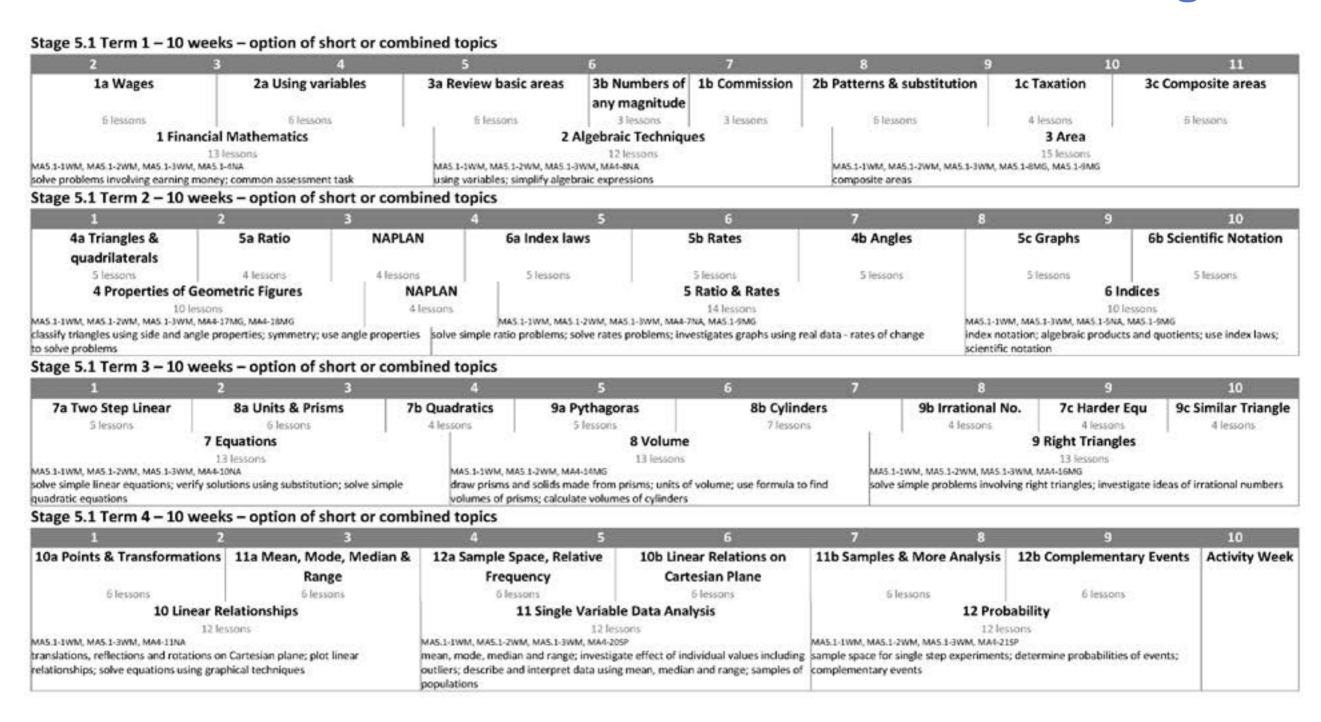
mathematics
extension 1
scope & sequence

Preliminary Extension 1 students have the option of HSC EXTENSION 2 - this course is only suitable for VERYcapable and dedicated students.

12MAX2 (Mr Bleasdale)

year 9, stage 5.1, scope and sequence - 2018

year 9 stage 5.1



Students in all year 9, stage 5.1, mathematics classes follow this pattern of study.

More capable students will also be given the opportunity to extend themselves with stage 5.2 outcomes.

The depth covered will vary from class to class and will be determined by individual class teachers.

return to year 9 contents page

year 9 stage 5.2

year 9, stage 5.2, scope and sequence - 2018

2	3	4	5	6	7	8	9	10	11
AAS 2-1WM, MAS 2-2WM, tage 5.1 financial math	1 Financial Ma 16 less MAS.2-3WM, MAS.1-4NA nematics; common assessment	ons		rAS.2 1WM, MAS.2 2WM, MAS firect and indirect proport problems	2 Ratio & Rates 12 lessons 5.2 SNA, MAS.1 9MG tion; works with direction pro	oportion to solve	MAS 2 1WM, MAS 2 2WM, MA	3 Area & Surface Area 12 lessons 5.2 3WM, MAS 1 8MG, MAS 1 9MG tangular and triangular prisms	
Stage 5.2 Term	2 – 10 weeks								
1	2	3	4	5	6	7	8	9	10
	c techniques; algebraic fraction ctor factorisation; 5.2 students during year 10		review st and cylin	M, MAS 2 2WM, MAS 2 12MG age 4 volume; extend to	0 lessons composite solids involving rig ve volume problems involvin olids during year 10	ght prisms small and		12 lessons 19MG, MAS 27NA tation; develop and use index la	ws for numerical a
1	2 2	3	. 4	5	6	7	8	9	10
		Lean allate anattant la cal	MAS.2.1WM, MAS.2.3	13 le WM, MAS, 1 6NA	elationships ssors elationships; 5.2 students wil		1WM, MAS 2 2WM, MAS 2 3WM, I	ieometric Figures 13 lessons MAS.1 11MG; ; scale drawings; 5.2 students w	ill extend knowledy
inear and simple quadr quadratic factorisation,	atic equations; 5.2 students wil linear inequalities and linear si			gradient-intercept form o			lude congruency during year		
	linear inequalities and linear si								
linear and simple quadr quadratic factorisation, year 10	linear inequalities and linear si								10

Students in all year 9, stage 5.2, mathematics classes follow this pattern of study.

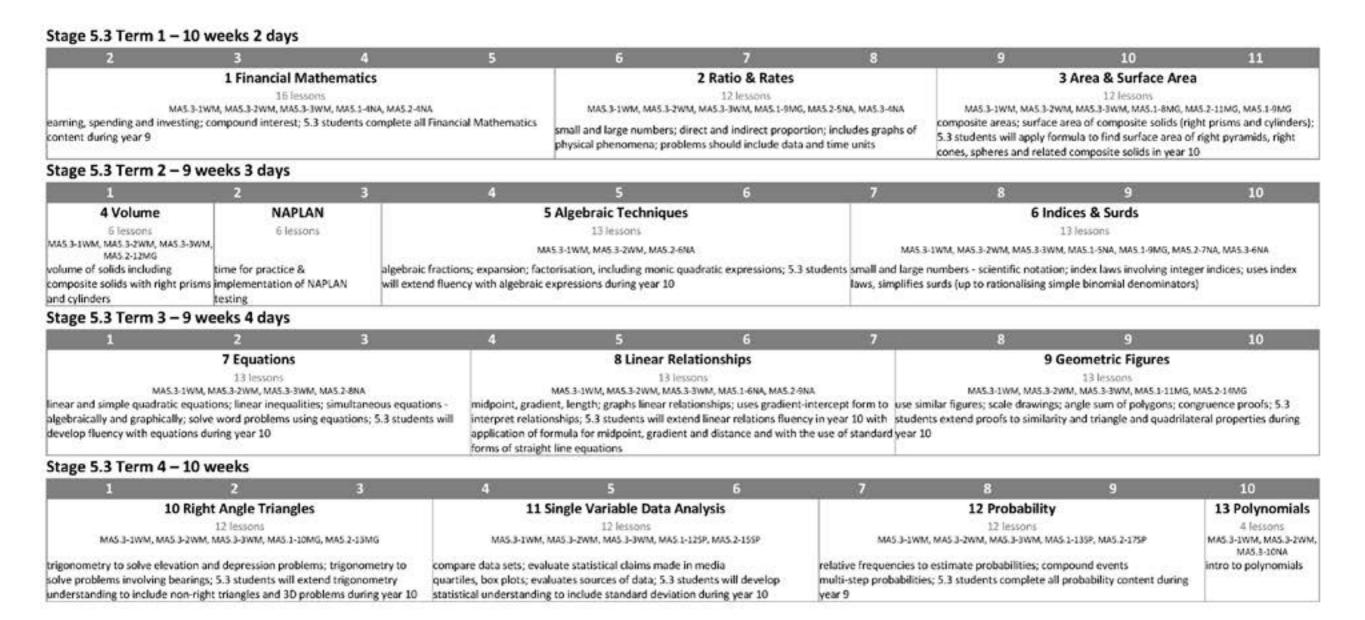
More capable students will also be given the opportunity to extend themselves with stage 5.3 outcomes.

The depth covered will vary from class to class and will be determined by individual class teachers.

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year 9, stage 5.3, scope and sequence - 2018

year 9 stage 5.3



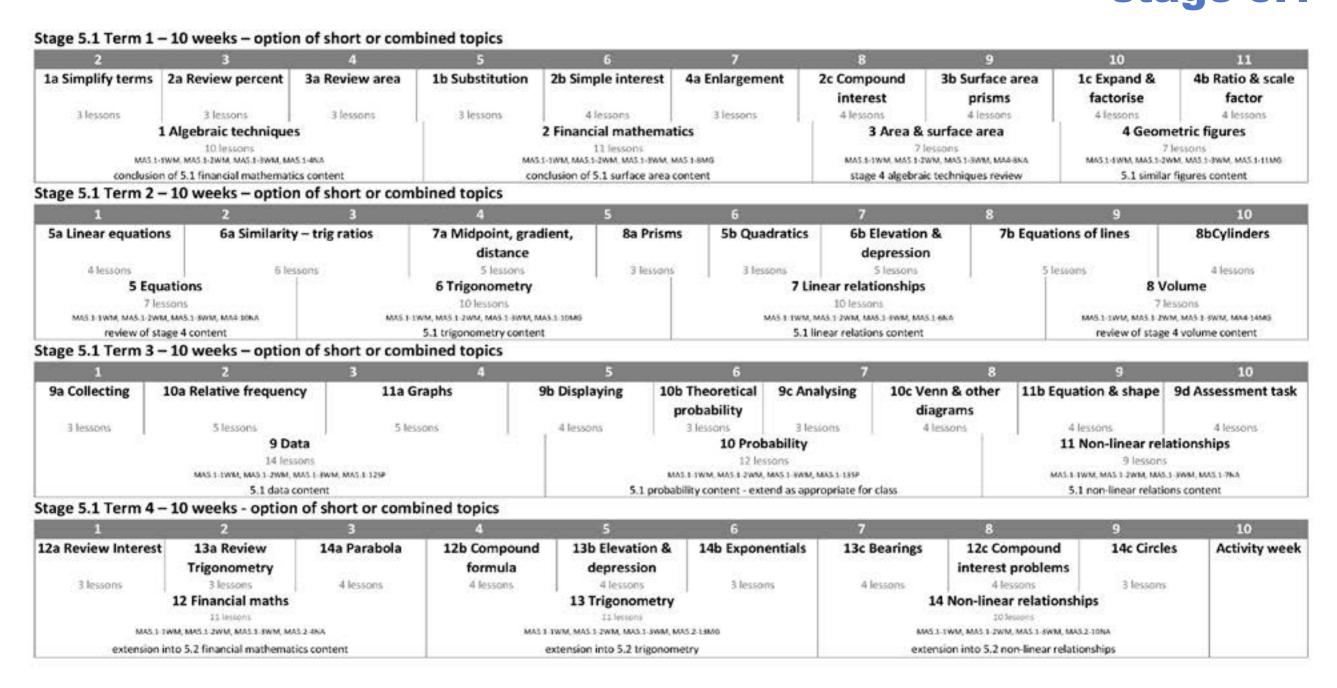
Students in all year 9, stage 5.3, mathematics classes follow this pattern of study.

More capable students will also be given the opportunity to extend themselves to allow an easier transition to Extension Mathematics courses in stage 6. The depth covered will vary from class to class and will be determined by individual class teachers.

return to year 9 contents page

year 10 stage 5.1

year 10, stage 5.1, scope and sequence - 2018



Students in all year 10, stage 5.1, mathematics classes follow this pattern of study.

More capable students will also be given the opportunity to extend themselves with stage 5.2 outcomes.

The depth covered will vary from class to class and will be determined by individual class teachers.

return to year 10 contents page

year 10 stage 5.2

year 10, stage 5.2, scope and sequence - 2018

2	3	4	5	6	7	8	9	10	11
MAS.2-1WM, M	9 lessons 9 sessons AS 2 2WM, MAS 2 3WM, MAS 2 4NA cial mathematics content		2 Area & surfa 9 lessons MAG 2-1WM, MAG 2-2WM, MAG 2 5.2 surface area of	-3WM, MA5.2-11MG		3 Algebraic technique 10 lessons MAS 2-1990, MAS 2-299M, MAS 2-399M, MAS 2-299M, MAS 2-299	MAS 2 4NA	4 Properties of go 7 les: MAS-2-1WM, MAS-2-2WM, 5.2 properties of geon	OFFS MAS 2-SWM, MAS 2-14MG
5.2 Term 2 -	– 10 weeks			3035141 O			2111 S. 1.5-21		
1	2	3	4	5	6	7	8	9	10
60	5 Equations 11 lessons MAS 2 1WM, MAS 2 2WM, MAS 2 3WM, MAS 2 8KA conclusion of 5.2 equation content		MAS 2 1WM, MAS	6 Trigonometry 8 lessons MAS 2-1WM, MAS 2-2WM, MAS 2-3WM, MAS 2-13MG 5.2 trigonometry content		7 Linear relations 9 lessons MAS2 1WM, MAS2 2WM, MAS2 3W 5.2 linear relations co	NM, MAS 2 9NA	8 Volume 7 lessons MAS.2-1WW, MAS.2-2WM, MAS.2-3WM, MAS.2-12MG conclusion of 5.2 volume content	
5.2 Term 3 -	- 10 weeks	3	4	5	6	7	8	9	10
	9 Trigonometry B 12 lessons MAS 2-1WM, MAS 2-2WM, MAS 2-1SSP, MAS 2-16SP extension into 5.3 - non-right triangle trigonometry		MAS 2	10 Non-linear relationships 8 lessons MAS 2 1WM, MAS 2 2WM, MAS 2 3WM, MAS 2 175P 5.1 and 5.2 non-linear relations content				12 Algebraic techniques B 8 lessons MAS.2-1WM, MAS.2-2WM, MAS.2-3WM, MAS.3-5NA extension into 5.3 algebraic techniques	
5.2 Term 4 -	– 10 weeks								
1	2	3	4	5	6	7	8	9	10
	13 Data 10 Jessons MAS 2-1WM, MAS 2-2WM, MAS 2-3WM, MAS 3-15MG 5.2 single and bivariant data content		8 lessons MAS 2-1WM, MAS 2-2WM, MAS 2-2WM, MAS 3-7NA MAS		15	15 Linear relationships B 7 lessons MAS 2-EWM, MAS 2-EW		16 Surds 7 Jessons	Activity wee

Students in all year 10, stage 5.2, mathematics classes follow this pattern of study.

More capable students will also be given the opportunity to extend themselves with stage 5.3 outcomes.

The depth covered will vary from class to class and will be determined by individual class teachers.

return to year 10 contents page

year 10 stage 5.3

year 10, stage 5.3, scope and sequence - 2018

2	3	4	5	6	7	8	9	10	11		
	1 Algebraic tech	niques		2 Ar	ea & surface area		****	3 Equations			
	13 lessons	, Si			11 lessons			11 lessons			
	MAS.3.1WM, MAS.3.2WM, MAS.3.3WM, MAS.3.5WA Fractions; products & factors				US 3 2WM, MAS 3 3WM, MAS 3 13	MG		WM, MIS3-2WM, MIS3-3WM, M			
ge 5.3 Term 2		& factors		Pyri	amids; cones; spheres		complex linear; qu	adratic formula; cubic; sime	ultaneous equations		
ige 5.5 Territ 2	- 10 Weeks	2	4	c	6	7	7.00	0	10		
4 Vo	lume	,	5 Trigonomet	n.		Linear relationship	e	7 Properties of geom	- AND STOR		
			12 lessons	4		7 lessons		9 lessons	cure inguies		
			1WM, MAS 3 2WM, MAS 3 3W	72777D							
Pyramids; or			ns; exact values; sine, o	osine & area rules	10.00	midpoint, gradient and length formulas;		ulas; congruency & similarity; special figures			
				parallel & perpendicula			ir lines				
ge 5.3 Term 3	- 10 weeks										
1	2	3	. 4	5	6	7	8	9	10		
8	Non-linear relationsh	ips		9 Data			10 Polynomials				
	11 lessons			12 lesso				12 lessons			
	3 2WM, MAS 3 3WM, MAS 1 7NA, MA and circles; transformations		MAS 3 1WM, MAS 3 2WM, MAS 3 3WM, MAS 3 185P, MAS 3 185P, MAS 3 195P mean, SD: bivariate data; line of fit			E3	factor and remainder theorems; graphs; roots				
ge 5.3 Term 4		ade to equation changes		mean, 50, Ewanace	data, mile of the		ractor and re	mander dicorents, grapits	,1003		
1	2	3	4	5	6	7	8	9	10		
	11 Logarithms			12 Function	ns		13 Circle geor	metry	Activity wee		
	11 lessons			11 lessons			10 lessons				
									1		
MAS.3	1WM, MAS 3 2WM, MAS 3 3WM, MA	5.3-11NA	M	A5.3-1WM, MA5.3-2WM, MA5.3-1	SWM, MAS.3-12NA		MAS.3-1WM, MAS.3-2WM, MAS.3	3WM, MA5.3-17M6			

Students in all year 10, stage 5.3, mathematics classes follow this pattern of study.

More capable students will also be given the opportunity to extend themselves to allow an easier transition to Extension Mathematics courses in stage 6. The depth covered will vary from class to class and will be determined by individual class teachers.

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preliminary mathematics Standard

preliminary mathematics Standard, scope and sequence - 2018

Year 11 Te	Year 11 Term 1 2018									
Week	Week 1 Week 2 Week 3	Week 4 Week 5 Week 6	Week 7 Week 8 (Task 1)	Week 9 Week 10						
Unit	MS-F1 Money Matters (F1.2): Earning and managing money	MS-A1: Formulae and Equations	MS-M1 Applications of Measurement (M1.1): Practicalities of measurement	MS-A2: Linear Relationships						

Year 11	Year 11 Term 2 2018									
Week	Week 1 Week 2 Week 3	Week 4 Week 5	Week 6 Week 7 (Task 2)	Week 8 Week 9 Week 10						
Unit	MS-S1 Data Analysis (S1.1): Classifying and representing data (grouped and ungrouped)	MS-S1 Data Analysis (S1.2): Exploring and describing data arising from a single continuous variable	MS-F1 Money Matters (F1.1): Interest and depreciation	MS-M1 Applications of Measurement (M1.2): Perimeter, area and volume						

Year 11 T	Year 11 Term 3 2018									
Week	Week 1 Week 2	Week 3 Week 4	Week 5 Week 6	Week 7 Week 8 Week 9 Task3						
Unit	MS-M1 Applications of Measurement (M1.3): Units of energy and mass	MS-S2 Relative Frequency and Probability	MS-M2 Working with Time	MS-F1 Money Matters (F1.3) Budgeting and household expenses						

Students in all year 11 Preliminary Mathematics Standard classes follow this pattern of study.

At the end of the Preliminary course students need to decide whether to follow the HSC Mathematics Standard 2 course or the Standard 1 course.

The Standard 2 course is a full Board Developed Course and counts fully toward the requirements for both ATAR and HSC.

The Standard 1 course is a new Board Developed Course and students must be aware of the consequences of choosing Standard 1 as part of their pattern of study.

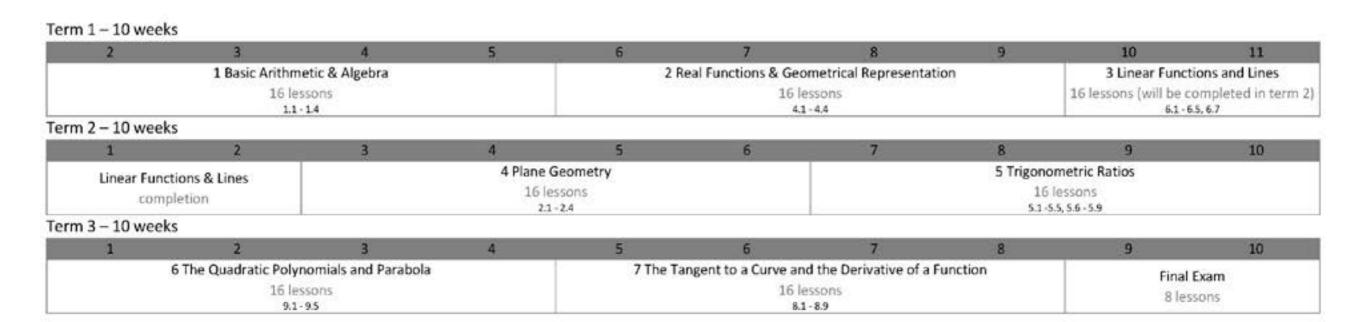
See the HSC information page for more detail, or ring Mr Murton on 4861 2255.

During term 3 the differences between the courses will be explained to students so they can make informed choices.

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preliminary mathematics

preliminary mathematics, scope and sequence - 2018



Students in all Preliminary Mathematics classes follow this pattern of study.

Students who are completing Mathematics Extension 1 must also satisfactorily complete all of the Mathematics work. At the end of the Preliminary
Mathematics course students
generally continue onto the HSC
Mathematics course.

Some students may however elect to change courses to the HSC Standard 2 course. These students

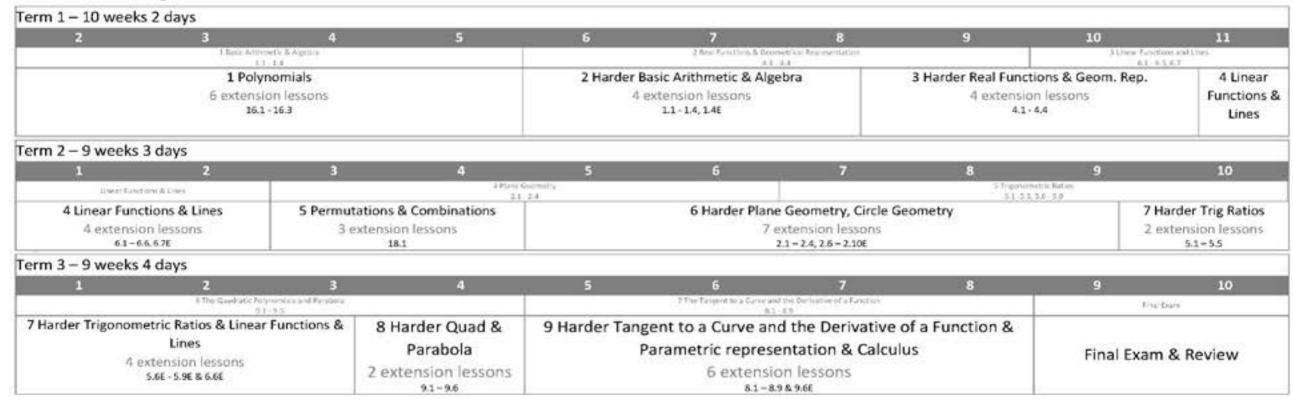
must be aware that they will need to be sure they understand all Preliminary work from the Standard course.

Please speak to Mr Murton on 4861 2255 if you have any questions.

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preliminary mathematics extension 1

preliminary mathematics extension 1, scope and sequence - 2018



Students who are completing Mathematics Extension 1 must also satisfactorily complete all of the Mathematics work.

At the end of the Preliminary Mathematics Extension 1 course students generally continue onto the HSC Mathematics Extension 1 course.

Some students may also choose to complete the difficult HSC Mathematics Extension 2 course.

Some students may however elect to change courses to the HSC Mathematic course or even to HSC Mathematics Standard 2 course.

Student who change to the Standard 2 course must be aware that they will need to be sure they understand all work from the Preliminary Mathematics Standard course.

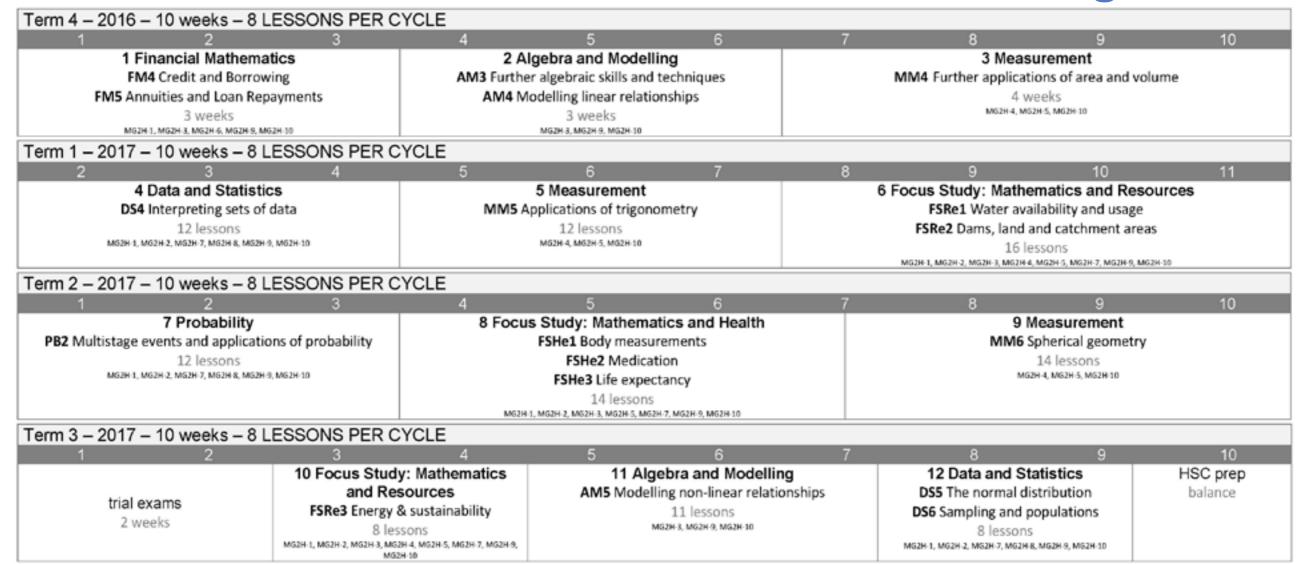
Please speak to Mr Murton on 4861 2255 if you have any questions.

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HSC

mathematics general 2

hsc mathematics general 2, scope and sequence - 2018



Students in all Mathematics General 2 classes follow this pattern of study.

2018 is the 5th year for the Mathematics General 2 course. The course is very similar to the previous General Mathematics course and students can use previous General exams in their revision.

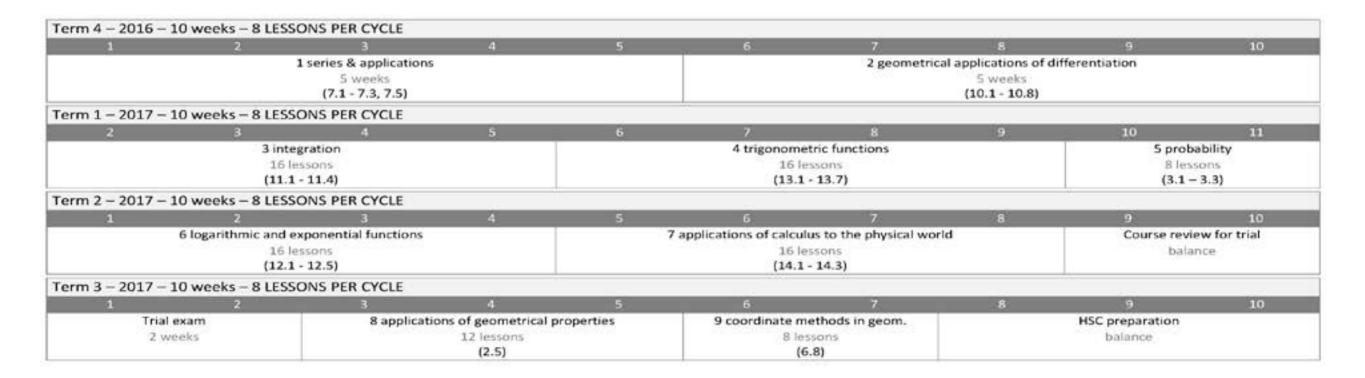
A significant difference is the introduction of Focus Studies. This inclusion has provided an increase in the relevance of this course.

If you have further questions about this course please phone Mr Murton at school on 4861 2255.

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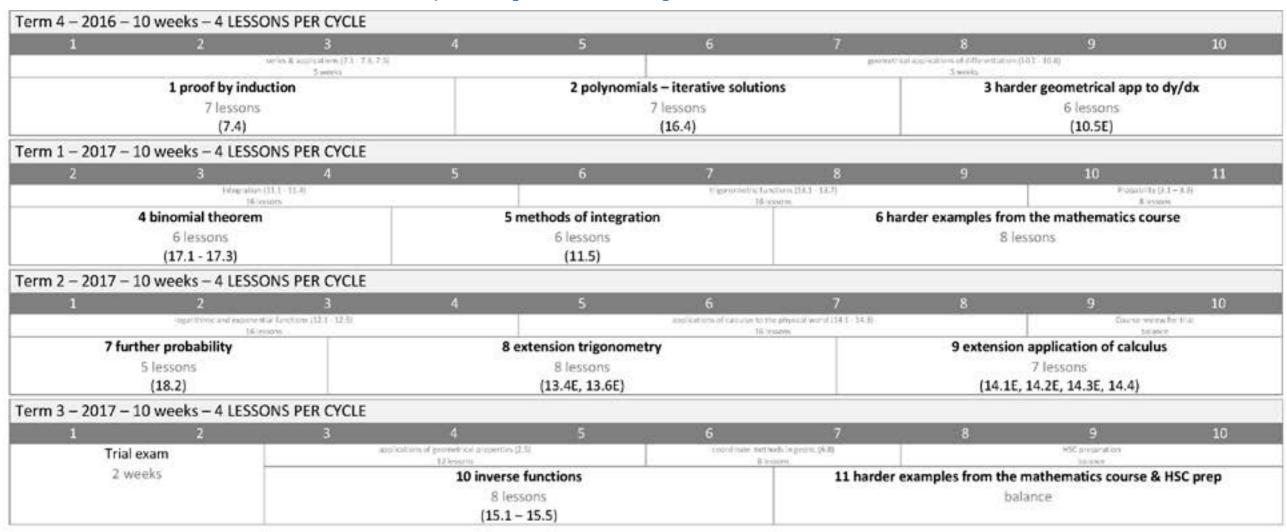
HSC mathematics

hsc mathematics, scope and sequence



HSC mathematics extension 1

hsc mathematics extension 1, scope and sequence



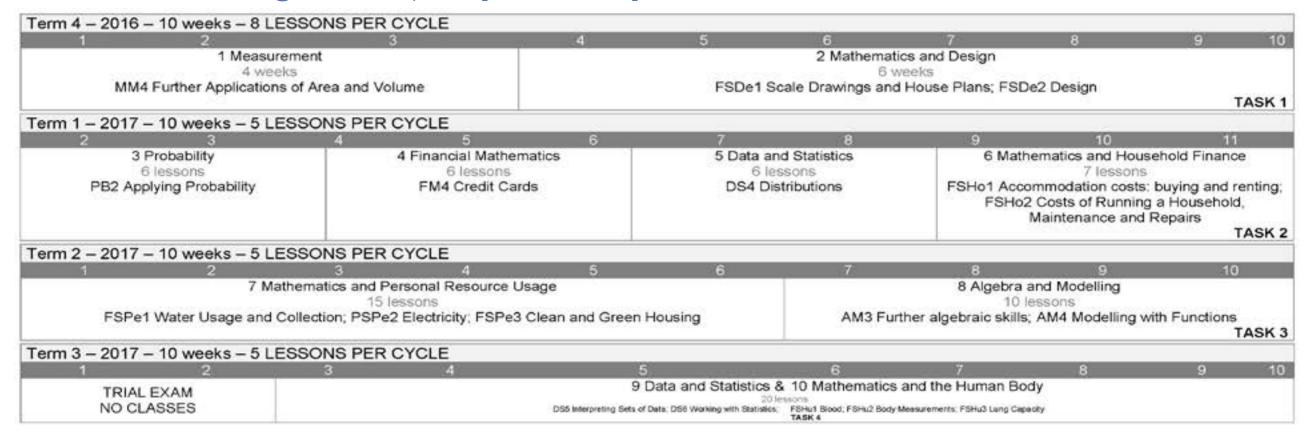
HSC mathematics extension 2

hsc mathematics extension 2, scope and sequence

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	
term 4		Complex Numbers #2 20 lessons					Graphs #1 16 lessons				
term 1		Polynomials #7 20 lessons					Harder ext 1 Applications #8 16 lessons				
term 2		Conics #3 13 lessons				ation #4 Volumes #5 essons 13 lessons					
term 3	tas	k3		Mechanics #6 balance							

HSC mathematics general 1

hsc mathematics general 1, scope and sequence



Students in the Mathematics General 1 class follow this pattern of study.

2018 is only the fourth year for the Mathematics General 1 course.

The course offers those students who have previously struggled to succeed in mathematics a chance to develop their skills without the stress of external exams.

A significant difference in this course is the introduction of Focus

Studies. This inclusion has provided an increase in the relevance of this course.

All assessment tasks relate to the Focus Studies and are completed during class time with teacher assistance.

If you have further questions about this course please phone Mr Murton at school on 4861 2255.

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