

## Scope and Sequence Year 10 Mathematics 2013

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Time/	Term 1	Term 1	Term 1	Term 2	Term 2	Term 2
Duration	Week 1-3	Week 4-7	Week 8-10	Week 1-3	Week 4-7	Week 8-10
Name of Unit	Working with Number	Equations and	Measurement	Ratio and Rates	Investigating	Consumer Arithmetic
		Inequalities			Geometry	
	NS5.1.1	PAS4.4, PAS 5.2.2	MS4.2 MS5.2.2	NS5.2.1		NS5.1.2
					SGS5.2.1	
Concepts	Index Laws, Scientific	Solve equations and	Surface Area and	Problems involving	Properties of	Saving and borrowing
	notation and	inequations.	Volume	ratio and rates	quadrilaterals.	
	approximation.					
In class	Exercises, use of	Exercises, use of	Exercises, use of	Exercises, use of	Exercises, use of	Exercises, use of
Activities and	Mathletics, weekly	Mathletics, weekly	Mathletics, practical	Mathletics, weekly	Mathletics, weekly	Mathletics, weekly
Homework	homework sheet	homework sheet	activities, weekly	homework sheet	homework sheet	homework sheet
			homework sheet			
Learning	Use negative indices and	Solves equations and	Calculate surface areas	Converting rates	Complete	Applying simple interest
Areas	express square and cube	inequations involving	and volumes of prisms,	from one set of units	numerical	formula to problems
	roots in index notation.	multiple steps.	pyramids and	to another. Solve a	problems based on	related to investing
	Use appropriate		cylinders.	variety of real life	geometrical	money. Calculating
	approximations. Express			rotics and rotes	properties.	compound interest and
	numbers in scientific			Tallos and Tales.		repayments. Best buys.
	notation.					
Reporting	Measurement					
Stems	Number					
	Patterns and Algebra					
	Space and Geometry					



## Scope and Sequence Year 10 Mathematics 2013

	Unit 7	Unit 8	Unit 9	Unit 10	Unit 11	Unit 12
Time/	Term 3	Term 3	Term 3	Term 4	Term 4	Term 4
Duration	Week 1-3	Week 4-7	Week 8-10	Week 1-3	Week 4-7	Week 8-10
Name of	Coordinate Geometry	Trigonometry	Data	Probability	Graphs	Option: Further
Unit	PAS5.1.2					Trigonometry
		MS5.1.2	DS5.1.1	NS5.1.3	PAS5.2.4, PAS5.2.5	
						MS5.2.3
Concepts	Midpoint, gradient	Trigonometric ratios of	Groups data to analyse	Theoretical	Non linear graphs.	Applies trigonometry to solve
	and length of an	acute angles.	and construct	probabilities and		problems including bearings.
	interval joining two	Trigonometry of right	frequency and	relative frequency.		
	points.	angled triangles.	cumulative frequency			
			tables and graphs.			
In class	Exercises, use of	Exercises, use of	Use spreadsheets to	Exercises, use of	Exercises, use of	Exercises, use of Mathletics,
Activities	Mathletics, weekly	Mathletics, weekly	analyse collected data.	Mathletics,	Mathletics, weekly	weekly homework sheet
and	homework sheet	homework sheet	Exercises, use of	Weekly homework	homework sheet	
Homework			Mathletics, weekly	sheet. Probability		
			homework sheet	games.		
Learning	Determine the	Selecting and using	Group data into class	Determine the relative	Draws and	Use degrees and minutes.
Areas	midpoint, gradient	appropriate	intervals. Find mean	frequency of an event.	interprets graphs	Use three figure and
	and length from a	trigonometric ratios to	using class intervals.	Using the formula to	including simple	compass bearings. Sine and
	diagram. Determine if	find sides and angles of		calculate probability of	parabolae and	cosine rules for students
	slope is positive or	right angled triangles.		simple events	hyperbolae.	doing General Mathematics
	negative.					in Year 11.
Reporting	Patterns and Algebra,					
Stems	Number					
	Measurement					
	Space and Geometry					
	Data					