

2018 Year 11 Mathematics Standard Pathway 2 (BDC) - Scope and sequences

(Last revised: 6/11/07)

	Week	1	2	3	4	5	6	7	8	9	10
Term 1	Unit	Collecting and Presenting Data New Century 11 Chapter 1			Formulas and Equations New Century 11 Chapter 2		Earning Money and Taxation New Century 11 Chapter 3			Probability New Century 11 Chapter 4	
	Strand topic/ Focus Study topic	S1.1			A1		F1.2			S2	
	Outcome(s)	MS 11-3, MS 11-4, MS 11-9, MS 11-10.			MS 11-1, MS 11-6, MS 11-9, MS 11-10.		MS 11-2, MS 11-5, MS 11-6, MS 11-9, MS 11-10.			Ms 11-2, MS 11-8, MS 11-9, MS 11-10.	
	Outcome(s)	S1.1 1.01 Interpreting graphs S1.1 1.02 Misleading graphs S1.1 1.03 Types of data S1.1 1.04 Sampling techniques S1.1 1.05 Constructing graphs S1.1 1.06 Frequency histograms and polygons S1.1 1.07 Dot plots and stem-and-leaf plots			A1 2.01 Simplifying algebraic expressions A1 2.02 Expanding algebraic expressions A1 2.03 Formulas A1 2.04 Solving equations A1 2.05 Formulas and equations A1 2.06 Changing the subject of a formula		F1.2 3.01 Wages, salaries and overtime F1.2 3.02 Commission, piecework and royalties F1.2 3.03 Bonuses, allowances and annual leave loading F1.2 3.04 Government allowances and pensions F1.2 3-05 Gross and net pay F1.2 3-06 Income tax and Medicare levy F1.2 3-07 PAYG and tax returns F1.2 3-08 GST and VAT			S2 4.01 Probability of simple events S2 4.02 Tables and tree diagrams S2 4.03 Complementary events S2 4.04 Relative frequency S2 4.05 Comparing relative frequency and theoretical probability S2 4.06 Probability tree diagrams	

	Week	1	2	3	4	5	6	7	8	9	10
Term 2	Unit	Measurement New Century 11 Chapter 5			Managing A Home New Century 11 Chapter 6		Linear Functions New Century 11 Chapter 7			Interest and Depreciation New Century 11 Chapter 8	
	Strand topic/ Focus Study topic	M1.1 and M1.2			F1.3, M1.2, M1.3, S1		A2			F1.1	
	Outcome(s)	MS 11-3, MS 11-4, MS 11-9, MS 11-10			MS 11-2, MS 11-3, MS 11-5, MS 11-6, MS 11-9, MS 11-10		MS 11-1, MS 11-2, MS 11-6, MS 11-9, MS 11-10.			MS 11-2, MS 11-5, MS 11-6, MS 11-9, MS 11-10	
	Outcome(s)	M1.1, 1.3 5.01 Metric units M1.1 5.02 Error in measurement M1.1 5.03 Significant figures M1.1 5.04 Scientific notation M1.2 5.05 Perimeters of circular and composite shapes M1.2 5.06 Area M1.2 5.07 Volume and surface area of a prism M1.2 5.08 Volume and surface area of a cylinder M1.2 5.09 Volume and surface area of a sphere M1.2 5.10 Volume and surface area of composite solids			F1.3 6.01 Water usage in the home M1.2, S1.1 6.02 Water tanks and dams M1.3, S1.1, F1.3 6.03 Electricity usage in the home M1.3, F1.3 6.04 Energy consumption and the cost of appliances M1.3 6.05 Food and energy consumption F1.3 6.06 Household budgeting		A2 7.01 Graphing linear functions A2 7.02 The gradient formula A2 7.03 Linear modelling A2 7.04 Direct linear variation A2 7.05 Conversion graphs			F1.1 8.01 Percentage increase and decrease F1.1 8.02 Simple interest F1.1 8.03 Simple interest graphs F1.1 8.04 Compound interest F1.1 8.05 Straight-line depreciation	

		Week	1	2	3	4	5	6	7	8	9	10	
Term 3	Unit		Owning A Car New Century 11 Chapter 9			Analysing Data New Century 11 Chapter 10			World Location and Times New Century 11 Chapter 11		Year 11 Finals (Note: Driving Safely is a Year 11 topic completed at the start of Term 4)		
	Strand topic/ Focus Study topic		F1.3, S1.1			S1.2			M2				
	Outcome(s)		MS 11-2, MS 11-5, MS 11-6, MS 11-7, MS 11-9, MS 11-10.			MS 11-2, MS 11-7, MS 11-9, MS 11-10.			MS 11-3, MS 11-9, MS 11-10.				
			F1.3, S1.1 9.01 Car insurance F1.3 9.02 Stamp duty F1.3 9.03 On-road costs F1.3 9.04 Running costs F1.3 9.05 Fuel consumption and prices F1.3 9.06 Choosing the best car			S1.2 10.01 The mean, median and mode S1.2 10.02 Quartiles, deciles and percentiles S1.2 10.03 The range and interquartile range S1.2 10.04 The effect of outliers S1.2 10.05 Cumulative frequency graphs S1.2 10.06 Box plots S1.2 10.07 Standard deviation S1.2 10.08 The shape of a distribution			M2 11-01 Latitude and longitude M2 11-02 Time differences M2 11-03 Timetables M2 11-04 International time zones				

Following satisfactory completion of the Year 11 Mathematics Standard course (BDC), students study either:

- the HSC Mathematics Standard Pathway 2 course (BDC)
or
- the HSC Mathematics Standard Pathway 1 course (CEC).