

# Mathematics Applied 2

## 2010 Course Outline

		<b>Topic</b>	<b>Assessment</b>
Term I	1	<b>Finances</b> Money, percentages, GST, Budgeting, Wages, taxes, HP, Currency conversions	U.S. 5234 (end Feb)
	2	<b>Number</b> Solve straightforward number problems in context	U.S. 5235 (Mid March)
	3	<b>Measurement</b> Perimeter, Area, Volume, Bearings Solving Measurement Problems	U.S. 5241 (Early April)
	4	<b>Computing</b> Spreadsheets – Excel, Word Applications to “Planning a Trip” (Itinerary, Budget, Commentary)	Project (Mid April)
Term II	5	<b>Tables and Graphs</b> Timetables Distance/time graphs	U.S. 5226 (mid May)
	6	<b>More Graphs</b> Line graphs Parabola, Quadratic, Circle, Hyperbola	U.S. 5238 (Mid June)
	7	<b>Statistics</b> Exploring Data Evaluating Reports	U.S. 5240 (early July)
Term III	8	<b>Probability</b> Practical probability Simulations Theoretical probability	U.S. 5242 (Mid August)
	9	<b>Geometry and Design</b> Transformations Loci	U.S. 5237 (End August)
	10	<b>Models and Construction</b> Isometric Drawings Constructing nets Making models	U.S. 5231 (Mid September)
Term IV	11	<b>Trigonometry</b> Pythagoras Right angle trigonometry	U.S. 5236 (End October)
	12	<b>Algebra</b> Using patterns Equations and formulae	U.S. 5239 (Early November)
	13	<b>Building Project</b> House plans 3D Architect (on Computer) *Or U.S. 5251(Triangle Problems)	Project (mid November)

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Number	Level	Credits		Date
8490	1	2	<ul style="list-style-type: none"> <li>Solve problems using calculations with numbers expressed in different forms</li> </ul>	
5224	1	2	<ul style="list-style-type: none"> <li>Use decimals and percentages to solve problems</li> </ul>	
5226	1	2	<ul style="list-style-type: none"> <li>Construct tables and graphs</li> <li>Use tables and graphs</li> </ul>	
5227	1	3	<ul style="list-style-type: none"> <li>Solve problems involving money</li> </ul>	
5234	1	3	<ul style="list-style-type: none"> <li>Use calculations in money situations</li> </ul>	
5235	1	2	<ul style="list-style-type: none"> <li>Use strategies to solve number problems</li> </ul>	
5236	1	2	<ul style="list-style-type: none"> <li>Use Pythagoras Theorem and Trigonometry to solve problems involving right angled triangles</li> </ul>	
5237	1	3	<ul style="list-style-type: none"> <li>Describe situations using transformations</li> <li>Select and apply transformations to solve problems</li> <li>Use loci to solve problems</li> </ul>	
5238	1	4	<ul style="list-style-type: none"> <li>Draw and describe graphs involving two variables</li> </ul>	
5239	1	3	<ul style="list-style-type: none"> <li>Use patterns, equations and formulae to solve problems</li> </ul>	
5240	1	3	<ul style="list-style-type: none"> <li>Carry out an investigation and interpret data</li> <li>Interpret data to answer questions about situations</li> </ul>	
5241	1	3	<ul style="list-style-type: none"> <li>Use strategies to solve measurement problems</li> </ul>	
5242	1	2	<ul style="list-style-type: none"> <li>Determine probabilities</li> </ul>	
5245	2	2	<ul style="list-style-type: none"> <li>Solve coordinate geometry problems</li> </ul>	
5246	2	4	<ul style="list-style-type: none"> <li>Use techniques to manipulate and simplify algebraic expressions</li> <li>Use algebraic methods to solve problems</li> </ul>	
5248	2	2	<ul style="list-style-type: none"> <li>Use sequences and series to solve problems</li> </ul>	
5251	2	3	<ul style="list-style-type: none"> <li>Choose and apply trigonometric methods to solve problems involving lengths and angles</li> </ul>	
<b>Total credits</b>		<b>46</b>		