

Time Allocation	Topic/s	Key Teaching Points	Nelson Reference	Assessment
Weeks 1–5 (20 hours)	Topic 1.1 Consumer arithmetic	<p>Applications of rates and percentages and use of spread sheets (1.1.1 – 1.1.8)</p> <ul style="list-style-type: none"> Salary, wages (including piecework/overtime) allowances and commissions Government allowances and pensions Prepare personal budgets Unit cost method for price comparison Percentage increase and decrease, simple and compound interest Currency exchange rates Share dividends and price earnings ratio Use a spreadsheet for above computations as appropriate 	<p>Please refer to www.nelsonnet.com.au as there are many teaching resources including worksheets & investigations that support this textbook.</p> <p>Chapter 1 Chapter 4 Chapter 6</p>	<p>Week 2 Investigation Finance Applications (6%)</p> <p>Week 5 Topic Test 1 (7%)</p>
Weeks 6–7 (5 hours)	Topic 1.2 Algebra and Matrices	<p>Linear and non-linear expressions (1.2.1 – 1.2.3)</p> <ul style="list-style-type: none"> Numerical substitution into expressions Formulae evaluation Spread sheets, tables and formulas 	Chapter 2	
Weeks 7–9 (10 hours)	Topic 1.2 Algebra and Matrices	<p>Matrices and matrix arithmetic (1.2.4 – 1.2.7)</p> <ul style="list-style-type: none"> Matrices and storage/displaying of information Size and type of matrices Matrix arithmetic Solve problems using matrices 	Chapter 3	<p>Week 9 Topic Test 2 (7%)</p> <p><u>End of T1</u></p>

Week 10-12 (12 hours)	Topic 1.3 Shape and measurement	Pythagoras' Theorem (1.3.1) Solve problems in 2 and 3 dimensions using Pythagoras' theorem Mensuration (1.3.2 – 1.3.4) <ul style="list-style-type: none"> • Perimeter and area of 2-D shapes, including sectors and other composite shapes • Volume of standard objects such as prisms, pyramids, cones, spheres, practical applications • Surface area, standard and composite shapes, practical applications 	Chapter 5	
Weeks 13-14 (8 hours)	Topic 1.3 Shape and measurement	Similar figures and scale factors (1.3.5 – 1.3.8) <ul style="list-style-type: none"> • Conditions of similarity, similar triangles • Scale factors and linear scaling problems • Scale drawings (maps and building plans), problem solving • Scale factors and areas of similar figures Scale factors and surface area/volume of similar solids	Chapter 7	Week 14 Topic Test 3 (7%)
Week 15		Revision / end of Unit 1		Unit 1 Exam (15%)

Weeks 16–20 (18 hours)	Topic 2.1 Univariate data analysis and the statistical investigation process	<p>The statistical investigation process (2.1.1)</p> <ul style="list-style-type: none"> Identifying a problem and posing a statistical question Collecting or obtaining data Analysing the data Interpreting and communicating the results <p>Making sense of data relating to a single statistical variable (2.1.2 – 2.1.9)</p> <ul style="list-style-type: none"> Classifying categorical variables – organising the data Classifying numerical variables (discrete/continuous) – describe the distribution, modality, shape, location and spread – interpret in context Mean and standard deviation (using technology) Deviations from the mean in normally distributed data Quantiles in normally distributed data, the 65%, 95% and 99.7% rule, calculating probabilities for normal distributions 	Chapter 8	Week 20 Topic Test 4 (7%)
Week 20–22 (7 hours)	Topic 2.1 Univariate data analysis and the statistical investigation process	<p>Comparing data for a numerical variable across two or more groups (2.1.10 – 2.1.12)</p> <ul style="list-style-type: none"> Box plots, outliers Compare groups, interpret and report findings The statistical process for comparing groups 	Chapter 11	Week 21 Investigation Statistical Applications (6%)
Week 22–24 (10 hours)	Topic 2.2 Applications of trigonometry	<p>Applications of trigonometry (2.2.1 – 2.2.3)</p> <ul style="list-style-type: none"> Trigonometry of the right triangle Area of triangles, Heron's rule and solution of practical problems <p>Sine and cosine rule and application to problems (excluding ambiguous case)</p>	Chapter 10	Week 24 Topic Test 5 (7%)
Week 24–27 (10 hours)	Topic 2.3 Linear equations and their graphs	<p>Linear equations (2.3.1 – 2.3.2)</p> <ul style="list-style-type: none"> Identify and solve linear equations Word problems <p>Straight-line graphs and their applications (2.3.3 – 2.3.6)</p> <ul style="list-style-type: none"> Construction of graphs Gradient and intercepts, model linear relationships Interpret graphs and analyse practical situations 	Chapter 9	Week 27 Topic Test 6 (7%)

Week 27–29 (10 hours)		Simultaneous linear equations and their applications (2.3.7 – 2.3.8) <ul style="list-style-type: none"> • Solving simultaneous equations – graphically, algebraically and using technology appropriately • Solve practical problems Piece-wise linear graphs and step graphs (2.3.9 – 2.3.10) <ul style="list-style-type: none"> • Sketch piece-wise linear graphs, step graphs • Interpret and use to model practical situations 	Chapter 12	Week 28 Investigation Linear graph Applications (6%)
Week 29–30		Revision/end of course assessment		Exam (25%)

ASSESSMENT SCHEDULE

WHEN	WHAT	TITLE	WEIGHTING
Week 2	Investigation	Finance Application	6%
Week 5	Response	Topic Test 1	7%
Week 9	Response	Topic Test 2	7%
Week 14	Response	Topic test 3	7%
Week 15	Exam	End of Unit 1	15%
Week 20	Response	Topic test 4	7%
Week 21	Investigation	Statistical Applications	6%
Week 24	Response	Topic Test 5	7%
Week 27	Response	Topic Test 6	7%
Week 28	Investigation	Linear Graph Applications	6%
Week 30	Exam	End of Y11 Course	25%