

Content for Year 10 Course 2	SCASA Standard	Dwyer Reference	Resources	Assessment
<u>Weeks 1 – 3</u> <i>Algebra 1 – patterns & algebra</i> <ul style="list-style-type: none"> Factorise algebraic expressions by taking out a common algebraic factor. Simplify algebraic products and quotients using index laws. Apply the four operations to simple algebraic fractions with numerical denominators. 		Chapter 1		
<u>Weeks 4 – 6</u> <i>Linear equations – linear & non linear</i> <ul style="list-style-type: none"> Solve problems involving linear equations, including those derived from formulas. Solve linear inequalities and graph their solutions on a number line. Solve linear simultaneous equations, using algebraic and graphical techniques including using digital technology. 		Chapter 2		Week 6 Test 1
<u>Weeks 7 – 8</u> <i>Measurement & geometry - Units</i> <ul style="list-style-type: none"> Solve problems involving surface area and volume for a range of prisms, cylinders and composite solids. 		Chapter 3		
<u>Week 9 - 10</u> Review all of the above EPW		Chapter 5		Week 9 Mental Computation Week 10 EPW 1

Content for Year 10 Course 2	SCASA Standard	Dwyer Reference	Resources	Assessment
<u>Week 11 – 13</u> <i>Quadratics – Patterns & algebra</i> <ul style="list-style-type: none"> Expand binomial products and factorise monic quadratic expressions using a variety of strategies. 		Chapter 6		Week 13 Test 2
<u>Week 14 -16</u> <i>Solving equations – linear & non linear</i> <ul style="list-style-type: none"> Solve linear equations involving simple algebraic fractions. Solve simple quadratic equations using a range of strategies. 		Chapter 7		Week 6 EXAM
<u>Weeks 17 -18</u> <i>Chance – Statistics & probability</i> <ul style="list-style-type: none"> Describe the results of two- and three-step chance experiments, both with and without replacements, assign probabilities to outcomes and determine probabilities of events. Investigate the concept of independence. Use the language of 'ifthen, 'given', 'of', 'knowing that' to investigate conditional statements and identify common mistakes in interpreting such language. 		Chapter 8		
<u>Week 19 - 20</u> Review all of the above		Chapter 10		Week 19 Mental Computation
<u>Weeks 21 – 23</u> <i>Finance – Money & finance</i>		Chapter 11		Week 22 EPW 2

Content for Year 10 Course 2	SCASA Standard	Dwyer Reference	Resources	Assessment
<ul style="list-style-type: none"> Connect the compound interest formula to repeated applications of simple interest using appropriate digital technologies. 				
<u>Weeks 24 – 26</u> <i>Trigonometry – Pythagoras & trigonometry</i> <ul style="list-style-type: none"> Solve right-angled triangle problems including those involving direction and angles of elevation and depression. 		Chapter 12		
<u>Weeks 27 – 28</u> <i>Statistics 1 – Data representation & interquartile ranges</i> <ul style="list-style-type: none"> Determine quartiles and interquartile range. Construct and interpret box plots and use them to compare data sets. Compare shapes of box plots to corresponding histograms and dot plots. 		Chapter 13		Week 28 Test 3
<u>Weeks 29 – 30</u> Review all of the above		Chapter 15		Week 29 Mental Computation
<u>Weeks 31 – 33</u> <i>Co-ordinate geometry – linear & non linear relationships</i> <ul style="list-style-type: none"> Solve problems involving parallel and perpendicular lines Explore the connection between algebraic and graphical 		Chapter 16		Week 33 Mental Computation

Content for Year 10 Course 2	SCASA Standard	Dwyer Reference	Resources	Assessment
representations of relations such as simple quadratics and circles using digital technology as appropriate.				
<u>Weeks 34 – 36</u> <i>Geometric reasoning – Measurement & geometry</i> <ul style="list-style-type: none"> Formulate proofs involving congruent triangles and angle properties. Apply logical reasoning, including the use of congruence and similarity, to proofs and numerical exercises involving plane shapes. 		Chapter 17		Week 34 Test 4 Week 36 EXAM 2
<u>Weeks 37 – 38</u> <i>Statistics 2 – Data representation & interquartile ranges</i>		Chapter 18		
<u>Weeks 39 – 40</u> Review of all the above Year 10 Transition		Chapter 20		